5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2048:	
10	TACGTATTTT CAAATGACGT TGGTGGACGT CACACTCCAT TCTTCTCAAA CTATCG	56
٠.	(2) INFORMATION FOR SEQ ID NO: 2049:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2049:	
	TTTTCCCCCC CCCCCCAAA TTGGGGGTTA AAATTTTAAA AAAAGGGGTT AAAGGGAAAC	60
25	CCCAATTCCG GTTAACCTTT TG	82
	(2) INFORMATION FOR SEQ ID NO: 2050:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	*	
35	. (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2050:	
	TCAGATGGAT GGCAGTTATT TGGTATTCCA TGGGTATAAA GATAGCATAT T	51
40	(2) INFORMATION FOR SEQ ID NO: 2051:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2051:	
50	TGAACGGGAG AAAGATGTTG TTGCATGGTG TCTCGGAAAC GTTTGTGTCC ACGTA	55
	(2) INFORMATION FOR SEQ ID NO: 2052:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2052:	
	ATACCTGGAT GCAAAGGCAA AGTCGCAATT TTCCCTGTTC TAATGTGTCT AACTTCTCTT	6,0,
10	CTAAAGTTCA GGTT	74
	(2) INFORMATION FOR SEQ ID NO: 2053:	
~	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2053:	
	AATCTTGTCT GATGTAATGT TCAGGTCCCT TGACCCTCAT ATGCATGAGG T	51
25	(2) INFORMATION FOR SEQ ID NO: 2054:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2054:	
35	CATCGACTTA TAGCTTAATT ATTATAAAAA ATTTCTCCAG ATTTAACTTT CT	52
	(2) INFORMATION FOR SEQ ID NO: 2055:	
40	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2055:	-
	ACTGACACAT TATATTAGTG AATTATTAAA AAATGATGAG AAAATTAAAA TCATCATGAA	50
50	TGAATTCGGT ACTTTTGATA TTGATAGCAA TAGTATTTCA AATGAAATTG AAGTCCATTC 12	20
	ATTGATTAAT GGTTGTGTTT GTTGCGATCT TAAACAAGAA CTTGTCTATG AACTAAAAGC	30
	CATTGCTTTA AAAGGGGACG TTAATCATGT CATCATAGAA GCGACAGGCA TTGCGCATCC 24	10
55		

	TTATTTATGG TGTATTAGAT GCGACTCGAT TTTTAGAACG TCATCAATAT ACCGAAAAAT	360
5	ACAGTTTCGC TGGATGGGGA GGATCCAGTT GGAAACTAAn	400
5	(2) INFORMATION FOR SEQ ID NO: 2056:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	
	TCAAAACTTT GAAGTTGTGC TTGCTTTGCA CCATTTTTAA AATGTTCAGC TGAGAGTATA	60
	TCTTCCGCTG TAAAATTTAC TTCTCCTGGA CTTAAAGATT CAATTAACAA CCAAGCCGAT	120
20	AACGTATCAT TTAGCAATTG ACTCATGAAA TCCCACCTTG TTCCCTATTT GTTTTTTACT	180
	TAATGCTATT TTAACAAATA ATTTAATCAT ATTAGTGTTT TTTCAAAAAT ATTCATATAT	240
	TATCATTACC ATATTTATTC AACAAATGIT TGTAAAATCC TCACTAATAA AATTAATCGA	300
25	TATGACCATA ATTCATTATC CAATAAATGA CTATAAAAAT TTCTnCTATG CCTTCATTTG	360
	CAACTAAATT TGGACATCAA AAAAGAGCAC TCCTGAATGA	400
30	(2) INFORMATION FOR SEQ ID NO: 2057:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* • .
	(b) Totoboot: Tinear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2057:	
40	TTGTTGTTGT GATTTCACAT TTTCAAAATT TTGTTGCATG TTGTTAACTT CATAAATTAG	60
	TGATTCGACT ACATCATTCA TGAGGACGCC TCCTACATTT TTTAATTTAT CACAATATAC	120
45	TGTATTCGTC ATGTTTTAAC ACTCTATATA ATTTGATTTA ACTATTTTTT CAAATGTGTT	180
,,	ATCTGTTAAA TCAAGTAAAT CTAAAAACTT CCTATATAAA TACAAAATTT TATCGTGTAT	240
	GTTGTTATAC GATGAAAATA CTTTTAATCT AATAAAATCA TTTAAATCAA ATACACCTCT	300
50	GCTGATTAAC AACACATACT TGTACTTGCC TCAAAAATAA AAATTACTAA TCATGATTTG	360
	ACTITIATAA CAAAATICAA AAATATIGTA ATGAGTATIC	400
	(2) INFORMATION FOR SEQ ID NO: 2058:	•

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2058:
10	TCTTTTTACT CGCAATTTTA GGAAAAATGG TTGGATCAAT TGATAAAACC GGAAAATTAT 60
	TAACAATAAT CAATAAAATA TCAAGCATAA TAATTATTAT TGTTGCTCTG ATGATATTAC - 120
	AAAAACTTAT TCAATTATTA TTCTAAAGCG TTATGTAGTT GTATTTTAAA AGCGTTATAC 180
15	AAAAGACATA CTTGTGTCTA TGTATAACGC TTTATTTATT ATAAATTTGG ATCAATTAAC 240
	TCAACAAATT TAAATGTTCC ATTGTCATAT TCAAATTTCA GGATATTACA ATTACCGATA 300
8	TTATGCTTTA ATGCTTCATC TAGTTTAAGG CAATATCTTA AAAATACCNC CCTTANTGGT 360
20	CCATGACTCA CGACTAATGC ATTATTCTTT GGTTTGAGAC 400
	(2) INFORMATION FOR SEQ ID NO: 2059:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
30	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2059:
	AAAACAACAC AATCAAAAAT ATTGGATACA ACTGAAAAGT TATCAAAGCT A 51
35	(2) INFORMATION FOR SEQ ID NO: 2060:
	(i) SEQUENCE CHARACTERISTICS:
40	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2060:
	TTATCATGTT TAGTAGATTT TAAGAAGCTA GAACATTGTA GATATGATGA 50
	(2) INFORMATION FOR SEQ ID NO: 2061:
50 55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
55	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2061:	
5	AACGTCGTNA TATCANCTTG CCAAACAAAG ATATTGTCAC CTTTTATCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2062:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2062:	
	ACCATGGTGN ATATGGTCAT GATGATCGTT TGTGCCGGGA GCTTGAGCTG	50
20	(2) INFORMATION FOR SEQ ID NO: 2063:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2063:	60
30	TITCCCTTGG TTTTGGAATT TAACCAAATT TGGGAGGGAT TTGGGACCAC CCCCAGGATT	
	TTAAAAAAA AAAATCCCAG G	81
	(2) INFORMATION FOR SEQ ID NO: 2064:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2064:	
45	TTTTGGGGAC CTTAACTGGG TGGGTCTGGA ACTGTTTCCC TTTCAAACAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2065:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATGATGTATT CAAAAGGTAT CTATAAAATA GCTTTAGTTG GAAAAGATGA GA	52
<i>5</i>	(2) INFORMATION FOR SEQ ID NO: 2066:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2066:	
15	TTTCATCACT GGCATCTTGT AATTTCTTGG TCTCATATCT GGAATTAATA GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2067:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
20	() ABOURNAR BRACHTONION ORD TO NO. 2007.	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2067:	
•	AACCATTAAG AAATTGGATA CACAGAGCAA ATATGGTTAT GATTAGGAAC CATGGCATTT	60
30	ACC	. 63
	(2) INFORMATION FOR SEQ ID NO: 2068:	
. •		
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 10102001. 223001	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2068:	
	AAAGGCAGCG ATGTTACTCA TACCGAACCT GGTTATATAT GAGCGATGAT GCAATGTA	58
	(2) INFORMATION FOR SEQ ID NO: 2069:	
45		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2069:	

	AACAGGA	67
•	(2) INFORMATION FOR SEQ ID NO: 2070:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2070:	
15	CATTTAACCC ATCITCTTT TTTAATTCTT CTATACTACG GTTTAAAAAC TCTACAATAA	60
	CTGCCATTTC ATCATCATCA AAGACT	86
	(2) INFORMATION FOR SEQ ID NO: 2071:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 381 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Toronogi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2071:	•
30	GTTTCTTCAA AATATGTGTA TTACCTTTTT GTATGGTTAA ATCTTTTAAT TCTATCATTC	60
	TTGTCTTACC TCTTTTGGTG TATCCTCTTT TTCAACATAT GTGATCGATA TGACATATTG	120
	CCCTTTATGC TTTATTTCGA CATACGTTCT ACTAGGTGAA AATCCATTAA ATGTTAATTT	180
35	ATAATCAAGC TTTTCCCCTC TTTCACTATA AGCCGTAATA TTAACATATT GTTGCGTACC	240
	TITTGGCACT TTGGCATAAC TATACTCCGT TTTTAAGAAA GGATTAAAAC GATCAAGTAT	300
	AGGATGATGT ATGANTGTAA AAGCAATAGT AATGGATAAT ATTAATCCTA ATAATATTGC	360
40	AATGATAAAT TTCATAGTTA A	381
	(2) INFORMATION FOR SEQ ID NO: 2072:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2)	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2072:	
	ATCCCCGAAT TGCTTCGCAA ATGTATCATC TTCGAGGCTA CGTTACTTAA AT	52
55		

5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) appropriate programmer and to the control of t	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2073:	
	CCAAAAACAG CATCACTGTG ATTATGGTTT TCATCTTCTA TAACTAAGAA TACATGTTTT	_ 60
	TTTGTAAAAA TTTTTTTGAT CA	82
15	(2) INFORMATION FOR SEQ ID NO: 2074:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	·. ·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2074:	
•	TTTATCGCAA TGAGGGAAGA TAAAGGATCC CGAAAGCGCC GTATGGGTTG GCAAACATTG	60
	GGGACCAAGA CCGTTCCCCA TA	82
30	(2) INFORMATION FOR SEQ ID NO: 2075:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2075:	
40	CTTGGTTGCT CTTTATTTAT TTAATTGAGA CCTAGAAATA AGTTATTAAG CACAATCATT	60
	CACTTT	66
45	(2) INFORMATION FOR SEQ ID NO: 2076:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2076:	

(2) INFORMATION FOR SEQ ID NO: 2077:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2077:	
	TACGTTCTAT CATAGAGCCT GGAGATGAAA TTATAATACC GGGACCAATT TATGCAGGCT	60
15	ACATACCACT CATCGAAGTA CTAGGTGGTA AACCAATTTA TATTGATACA ACAGCAACAC	120
	AATTTAMAAT TACACCTGAT GCATTAGAAA GTCATATTTC TCCAAAGACA AGAGCTGTCT	180
	TGTTAAATTA TCCGACTAAT CCAACTGGCG TAGTTTTAAA AAGAAAtGAA GTTYTArATA	240
20	TCGTAAATGT ATTAAAAAAA TATCCGTTAT TTATTATTAG CGATGAGATT TATGCTGAAA	300
	ATACATTTAG TGGTAAACAT GTATCC	326
	(2) INFORMATION FOR SEQ ID NO: 2078:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		(
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2078:	
35	ACCCCTTAAT TTAATTGATG TTTTGTTATT TTTAAAATGA ATAGTTGAAG AAAAAT	56
	(2) INFORMATION FOR SEQ ID NO: 2079:	1.4
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2079:	
	CACGTACTGC CATGTATGCA CAAGCCGGCA TTCATAAAGC CTTCCATGGC AGTCGTTATC	60
50	A	61
<i>-</i> 00	(2) INFORMATION FOR SEQ ID NO: 2080:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2080:	•
	TGGGACAGGG CGTACCATTT CAAAATGATA GTTCTGAGCT GCTAATTAAT ATGCCTTCGA	60
10	AAAAGATGAG TTTAAATTTA GATGATGAGA CTGA	94
•	(2) INFORMATION FOR SEQ ID NO: 2081:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	<u>.</u>
20	*	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2081:	
	AAGACGACAT GCAAGACATT GCCTTATCTA ATGACAATGT TAAAGCGAGT	50
25	(2) INFORMATION FOR SEQ ID NO: 2082:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2082:	
<i>35</i>	TTGTTCGGCT AAAAATAAAG TGGCATTGAC GTGACCGCAA GTTGACGTAC	50
	(2) INFORMATION FOR SEQ ID NO: 2083:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
••• • • • •	(xi) - SEQUENCE DESCRIPTION: SEQ ID NO: -2083:	
	CTTCCCAACA TTGCGCACTG AATGGCGATG GCGCTGATGC GTATTTCTCC TACGCTCTnG	60
50	CGTATTCAAC CGCTATGGGC ATCTCATACA TCTGTCGATG CGCTATTAAG CAGCCCGAAC	120
50		
	CGCACACCGT GAG	133
	(2) INFORMATION FOR SEQ ID NO: 2084:	
55		

5	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2084:	
10	GGTAGGGGCA CTATTTTGTA TGTAGAGGTT TTGTCGGGCA GTGTGAAATC AACGACT	57
	(2) INFORMATION FOR SEQ ID NO: 2085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085:	
	CCCCCCCAA AAACCGCCCC CCCCAATTTG GCCTTTTTCC AAGGGGGGTG TTTTAA	56
25	(2) INFORMATION FOR SEQ ID NO: 2086:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2086:	
35	AATAGCGAGA GCCCGACCAT CGCCTCCAGA TTGCGACTGA ATGGCAATGC GCTGATGCGT	60
	ATTTCTCCTA CCATCGTGGT ATTCAACGAT ATGGGCACTC TCATACAATn GCTC	114
10	(2) INFORMATION FOR SEQ ID NO: 2087:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2087:	
50	AAGGGGGAAA AGGAACCCAA GGCCCCCTTC CCAAGGAAAT TGGGGGGTTG GAAAAAACCA	60
	AAAATTTTTT AAAAACCCGG	80
	(2) INFORMATION FOR SEQ ID NO: 2088:	
55		

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	* •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2088:	
	•	
10	GGGGTAAGTG GTTGAGACAG GAACTTTACA AGAGGTGTTT CGTCATCCTA GAACGACGCT	60
0.40	TGCTCA	66
•	(2) INFORMATION FOR SEQ ID NO: 2089:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2089:	
25	ATCAATGTAT TACGTATCGA AGGTGAATTA TATCATACTG CTAAATATGA CGGTTTCACA	60
	TC	62
	(2) INFORMATION FOR SEQ ID NO: 2090:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2090:	
	GAATTCGCTA TCCTGAAATC CTGAGTCGCT GTCCTGAAAT CTGAAATCGC	50
40	(2) INFORMATION FOR SEQ ID NO: 2091:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2091:	
-		
	CGGGGTTCCC CCGTTCAATT CCCTTTGAGT TTTCAACCTT GCGGGTCGTA ATTCCCCAGG	60
	CCGGAATTGC TTAA	74
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2092:	
	ATTGTTGGGT ACGGTGGTGG GTTAATAATC CAAACACGTT AAACTACCCG TTTTAGATAT	60
	ACCTATACAA	70
15	(2) INFORMATION FOR SEQ ID NO: 2093:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2093:	
•	GTTTTGGGTC TTGGGTATTA GTTTAATCTC CATCATGGTT AATTGGTATG GTATTGGTAT	60
	TAGTAATCAT GTATGATGGG CTGGGCGG	88
30	(2) INFORMATION FOR SEQ ID NO: 2094:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
		•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2094:	
	TGGCCATTGA GGCGCATTAC GTACTACGGC TTGTCGTAGG GACAATTATT AT	52
	(2) INFORMATION FOR SEQ ID NO: 2095:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2095:	
e ė	AGTTGATGCA ATGAGTGATG CAAGGCGACT GAAAAGTTGG TATGAATGAC AAAACTTTAA	60

	(2) INFORMATION FOR SEQ ID NO: 2096:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2096:	
	ACTTAAAATC TAATACGGTA TTTTCAAAAA CGAATAAAAG TTACCTCTTG TCT	53
15	(2) INFORMATION FOR SEQ ID NO: 2097:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2097:	
	AACTTAATAT TGCTACGATA TGAACGGCAT nAACATACTT AGCGnTGnTC	50
	(2) INFORMATION FOR SEQ ID NO: 2098:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2098:	
		60
40		60
	TTGCACGTAC GG	72
	(2) INFORMATION FOR SEQ ID NO: 2099:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base_pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2099:	
55	CCACCCAAAC CCAAAAAATA AAGCCCAAAA AATTGCCAAG GAAGGAAAAG GAAAATTGTT	60

	(2) INFORMATION FOR SEQ ID NO: 2100:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2100:	
	CACCAATTTC TTCTGGnGCT GGATCTCGAC CTAAGTCCTG TAATAATTGA CGTTGAACAC	60
15	GAATTAATTT ATTAATTGTT TCTACCATAT GCACAGGGAT ACGAATCGTA CGTGCTTGGT	120
	CAGCAATTGC ACGAGTGATT GCTTGTCTAA TCCACCATGT TGCATATGTT GAAAACTTAA	180
20	ATCCTTTGTT AAAGTCAAAT TTTTCAAC	208
20	(2) INFORMATION FOR SEQ ID NO: 2101:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2101:	
	TAATGAAATT AAGTAAAATA AAAATTATTT CATGGATTGC TTCTATCTAT ATCGAAATAT	60
	TAAGAGGAAC ACCAATGTTA GTTCAAGTAT TTATCGTATT CTTTGGTATA ACTGCTGCAT	120
35	TAGGACTAGA CATTTCAGCT CTTGTTTGTG GAACAATTGC ATTAGTTATT AATTCCTCAG	180
	CTTACATTGC TGAAATTATT CGTGCAGGTA TAAATGCTGT TGATAAAGGC CAAATGGAAG	240
40	CCGCACGTAG TCTAGGTTTG AATTATAGAC AAACGATGAA AAGTGTAATT ATGCCACAAG	300
	CAATTAAAAA TATTTTACCA GCTTTAGGTA ATGAATTTGT CACTTTAATT AAAGAATCAT	360
	CTATTGTGTC AACAATTGGA GTTGGCGAAA TTATGTTTAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2102:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2102:

(2) INFORMATION FOR SEQ ID NO: 2103:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2103:	
٠	TTTAAGGAGA AAGGTCATTG GTATAATCTT GAGAAAGAGT GGCAAGAGTT CTTAAACTCT	60
15	GGGAAAGAGG TGAAAAATAT TAAAATGGAA GTAAAATATA GCGGTAATAG TCAAAGACCG	120
	ACTATATTA AAGTTGAATA TGAAATTAAT GGTGAAAGAA ATATTAGAAG AATATTAAAT	180
•	AAGTAGAGGT GCCAACATGA CATTTGAAGA GAAGCTTAGC AAAATATACA ATGAAATTGC	240
20	GAATGAGATT AGCAGTATGA TACCGGTAGA GTGGGGAAAAA GTATATACAA TGGCTTATAT	300
	AGATGATGGA GGAGGTGAAG TATTCTnTAA TTATACTAAA CCAGGNAGTG ATGACTTGAA	360
25	TTATTACACC AATATACCTA AGGGTATAAC ATTCCGGTGC	400
	(2) INFORMATION FOR SEQ ID NO: 2104:	
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2104:	
	AACCATCATA AAATGTTATT AAACCGTCAT GGACCGCGTC ACCATTTAGT CCT	. 53
40	(2) INFORMATION FOR SEQ ID NO: 2105:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2105:	
	AAGCACAAAT TAGCAGAGTG TTTTAATTTA AATGAACAAG TACCTTTACA ATTTTTTGGAT	60
	AATGTAAAAG TTGGTAAAAA TAATATTTAT GNTGCTTTGG AAGAGTTTGC CAACAA	116
6 6	(2) INFORMATION FOR SEQ ID NO: 2106:	

5	(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
~		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2106:	•
10	AATTTGCAAA AGAATCATGG ACAATTGAAA GCAAAAAGGA TCATCATTAA AATTGAACTG	60
	c	61
	(2) INFORMATION FOR SEQ ID NO: 2107:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2107:	
25	GAACCAATGT TAAGCTAATT AATGGAATCC TAACAGCGTT AATCTATTTA AAAAACTTAA	60
	(2) INFORMATION FOR SEQ ID NO: 2108:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	· · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2108:	
	ATTTGARAAT GAATCTGTGG AACATTTTGC TAATCATGAG GATAAAATCA TATGATGTTG	60
40 ·	AAAGCGAGAA TGGGATTACG TTAAACGTGG GCGCTGCTAA TTTAAGCACC TTATTTAGTG	120
	GAAGAT	126
	(2) INFORMATION FOR SEQ ID NO: 2109:	
<i>45 50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· 2
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2109:	
55	ATAATGTTAA AAAAACGGCA ACTAATCTTT TCATACTAAC AATGATTATA TGTACAATAA	60

		200
5	CAGAAAAAA TAGACATATT AATACATTAA TTGCTGAACA AGAGCGACAT AGAATTGGTC	240
	AAGACTTACA TGATACGTTA GGGCATGTGT TTGCAAGTTT ATCATTAAAA TCAGAATTAG	300
	CTTATAAACT AATAGATGCT GATGTAGANA AAGTAAAAGC TGAATTATTA GCAATTAATA	360
10.	AATTATCTCG TGAATCATTG NACAAAAGTC GAGAAATTAN	400
	- (2) INFORMATION FOR SEQ ID NO: 2110:	* (**, 1 *)
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	· · · · · · · · · · · · · · · · · · ·
	(D) TOPOLOGY: linear	
-		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2110:	
	AAGATTTAAT ATCGGGGGTA ATGTTGATTT TCAAATATCG CGATGTGCTT GTACCACCAT	60
25	T	61
	(2) INFORMATION FOR SEQ ID NO: 2111:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Topologi: Tilleal	*
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2111:	
40	TATACTAAAT TATGGCAACT TGGCTCATAT AGGTCGAGTT ACCAGACATA TTCGG (2) INFORMATION FOR SEQ ID NO: 2112:	55
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		1
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2112:	
50	CGAATAAGTT CTGGGCCTTT TGTTGTTCAT TAGCTTGTTT CTGTTTTGAT TGTTCTGCCA	60
	TTTGAACTAC ACCAACCTTT TAAATTTATT CTAGTGACAG GATAACTAAA ATATATTTCT	120
55	TATGCAATAA TTTCCTATTG ATAAGCATTT TCAGATTTTA GTTGTAAATT TTGCCCTAAT	180

	AATTTATAAA GAATAAATTC GTCTCCTCTT TGACCTATAA TATATTGARC ATTATAAGCC	300
	ATGCGATTCA TTCCAGACAC AGCCATAAAC TCTTGTTTAT CTATCATTTT AAATACCATT	360
5	TTTAATTTGG CTTAATGGGA CATTCCGTAT TAAATCATTT	400
	(2) INFORMATION FOR SEQ ID NO: 2113:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2113:	
	TGTTTTCAAA GCATGGTATA AATGCTTTGT AACATAGGTT TTGCCTACAT CAGTATTCGT	60
20	ACTTGTAATA AAAATCCTCA TAAAAAT	87
	(2) INFORMATION FOR SEQ ID NO: 2114:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
••	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2114:	
	TITACAAGTT AAATATANCA CTAAAAATTT TTAAGTCAAT AAGAATATAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2115:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2115:	
	TGTGCATAAA ATCCTTTTAC TTTTTGTAAT TGATTGTTAT CTTTAACAAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2116:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2116:	
	ATTTANAACC CAATTCCCCA TTATTTTTA AAACGGATTC CATGGGTGGA CCATTGGAAA	60
5	TTTTAAAAAA ACCATGGCCC CATTCCAAAA AGTTAGGATG GCCAAAAAGC CTT	113
•	(2) INFORMATION FOR SEQ ID NO: 2117:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2117:	
	GATTTATCAA CTATTTCCGT ATTTTGATTA TCTCCATACA ATTTCCAATC CTCTGGCTTA	60
20	TCAATAAATA ATGATAATGG CTTATCTTTC GAT	93
	(2) INFORMATION FOR SEQ ID NO: 2118:	
- 25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2118:	
	TGATTACCTT GANACATGAC TTTnCCTGAn TGGTAAATAT TTACAGTTGT	50
35	(2) INFORMATION FOR SEQ ID NO: 2119:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2119:	
	AGATATAAAA TATAAAAAAT TATTAAAAGC TATATCCAAT CAAGACTTTA AAGGGTTAGT	60
	TCCAAATATC AATCAGAATG ATAATTATNC TGAAATATAT ATAATTAACA ATACTAAAAA	120
50	CTTAATATAT CATTTATATG ATGATAGAGG TCTATGGCTA GCTTTTAATA ATAATGAAGA	180
	TTATGCAAGA TATNCTGAAA AATATAATGA TTTAATA	217

5	(A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2120:	
10	AGACTTAGTA AAGTTAGATC ATCTAAAGAT GAGCGTAAAA TTTATATTTA TITAAATAAT	60
	GGATGATATA TCTAA	75
	(2) INFORMATION FOR SEQ ID NO: 2121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2121:	
25	CACCACCTAC ATTTACTATA TAAAATGTAG GAATGGTAGA TTGATTTAGA TAAACTGGAC	60
	GTATCACTTT AAGTGCTTTT TCAAAGA	87
	(2) INFORMATION FOR SEQ ID NO: 2122:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
33		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2122:	
40	TGTTCTTTAG CTAAAGCTTT AGCTTCTTCA TCACTTTTAA CTTCATAAAA ATCTACACCA	60
	GTAGCTTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 2123:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2123:	
	TANATCTAAA AGGAGAAATG CTGAAGATGA GAGAGGTATT TTTGAAATGT	50
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2124:	er madrici er en enne
	TTAAAGGGTA ATTGTTTTAA AAAAAGATTA AACCGAGGAC TTTTAATTGT TAAAACCATC	60
	CCT	63
15	(2) INFORMATION FOR SEQ ID NO: 2125:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2125:	
	TGTAAACGAC TATTACATGA TCACAATCCA TTCAGCGCCA TTATATAAAG GTACTTAATA	60
	TAGGACATCA TTCGCAGC	78
30	(2) INFORMATION FOR SEQ ID NO: 2126:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2126: TTTGGTCGTG TGCAAGACAG AAGTCGACAT ACTCCAATGA AACATCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 2127:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2127:	
	TTTGTGTCGA TGCGCTTTTT CACTTCTTCT GAATGCTCGA AATCATTCGT	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2128:	
10	TGTCTGAAAT GATCATTAGG ATTGCTCCAG CTCAATGTCA GTnGnAATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2129:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2129:	
		60
25	TCCAATTACC TACAAAGTGA GTGCTTTCTT GACCAAGTCA AAACGAACTT TTATATTTGT	
23	CCAAC	65
	(2) INFORMATION FOR SEQ ID NO: 2130:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2130:	
	TTCCAAGGTG TCGCTGACTT TCAACACACT GAATATATAC CTGCCAGTCG GCTGGTCATG	60
40	c	61
	(2) INFORMATION FOR SEQ ID NO: 2131:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2131:	
	AGTTCTTCAG TCCAAATGCG GCATGTTGAC CCACCATAGG CGAGGGCATT TTCACCACGG	60

(2) INFORMATION FOR SEQ ID NO: 2132:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	manadare o son
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2132:	
	CCCCTCGAGT TTTTTTTTT TTTTTTTTA CTGGAGCAAA ATGAATTTTT TTTATTGTAC	60
15	TTCAGGGCAA CAAGTCAACA GCTGCAGGAA AACAAAACCA GGTCCAATCT ATGATCTAAG	120
	AGGAAGTCAG GAAAGGCTTG GAAGAGAGAT CCAAAGGCCA TCCTGGCAAG GGGAATCCCA	180
	CATGAGAATT CCTGGGAGAG AGCAGGCCCC AGGCAGCAAG GTCATCTTGC CTGCTTCTCT	240
20	GTAAGTTAAT CCTTCACAGG GAGCCAAGGC TTCTCTTGAC TGCTTGGACA AGAGGGTAAG	300
	GGCCCTGGTT GCAGGATTTG CCAGTGAAGT CATCCATGTC AATAGACCAG ATCATGGCTC	360
25	CTCCCAGGTT AAATTCCTTA AGAACTGAAC CTTGnCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 2133:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2133:	
	TTCATCATAC AACATTACAC TTTGTATGAC TAAACCCAAA TTAACGATAT	50
40	(2) INFORMATION FOR SEQ ID NO: 2134:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2134:	
50	GTGGCAAGCT TTTTTAAGGT CTGACTGCCA TCGACGGATC TATGTTAACA GGTGGATCT	59
	(2) INFORMATION FOR SEQ ID NO: 2135:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	·

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2135:	
	ATCAAAGTCA TCTmCATGGT ChATCACACC ACGCTTTATA TGGTAATTCT	50
10	(2) INFORMATION FOR SEQ ID NO: 2136:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2136:	
	CGGGATCTGA GGTCGCTATC TGCAATCTGC AATCGCTATC TGCAATCTGG AG	52
	(2) INFORMATION FOR SEQ ID NO: 2137:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2137:	
	NCTCAACCAC CCACACAACA ACACAACAAG CAGCACCACA ACACCACACA	50
35	(2) INFORMATION FOR SEQ ID NO: 2138:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2138:	
45	TGTATTGTCA TTGTAGACGT GTGTAGCCAA ATCATAAGGG CATGTGATTT ACGCATCCAC	60
	CTTCTCGGTT TGTACCGCAG TACTTAG	87
50		٥,
50	(2) INFORMATION FOR SEQ ID NO: 2139:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2139:	
	TTCACCGTTG CGCAACGTTC AAGTTTGAAG TTCGTTTGGC ATGTTGAAAT AAGCACCAGT	60
5	TACACCAAAA CGCCCAG	77
	(2) INFORMATION FOR SEQ ID NO: 2140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2140:	
	ATCTTCTAAC ATTCACTTAG TAGCGTnATT TTTCGCTTAT AATGAAATGT TAAGCATATG	60
20	CGGGATTTAT ATTITAAAGA GACCTTTAGA TACCATATAT ACCTAGGTTA TTGAAAATAT	120
	GGATACCTTA TATAAGTGAT TTGCAATA	148
25	(2) INFORMATION FOR SEQ ID NO: 2141:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2141:	
35	GCTGGCACAT AGATGATCGT CAAGTCGATC TCGCCAGTCT GAAGTCAAGA	50
	(2) INFORMATION FOR SEQ ID NO: 2142:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE-DESCRIPTION: SEQ ID NO: 2142:	
	TTGTTGTAAA TACTATCACT GTACATGGGT GCTATCAAAA TATTGTCAGT TCGTAAAATA	60
50	(2) INFORMATION FOR SEQ ID NO: 2143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2143:	•
	GTAGTATATC TTATTAATTG TATCATGAAG CAATTTAAAT ATCATGACAA TTTAGTTTGA	60
10	AAAACACACT TTGTGTTGAC GTTGTGTTTT ATGGGATATA GnATAGTAAG GAATGTAAAA	120
	TGAAGGAGTG AATGC	135
	(2) INFORMATION FOR SEQ ID NO: 2144:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2144:	*
25	TITTAAGGTT TGAAGAAAAA AAGTTTTAAA AATTCAAGGA AACATTAAAT TAATTTA	57
	(2) INFORMATION FOR SEQ ID NO: 2145:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		,
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2145:	
	TTTCGAAAGT TTGATAGTCC ACCTTACATT CTCCTACTAT TTTCTGATGT CCCAATACTT	60
40	TATATTATTT AAAGTAATAT AAAAGCAATC TCTTTTGAAG ACATGTTAAC CTAAATATTT	120
	ТТАТАТАТА ТАТАТАТАТА АААТАТАп	148
	(2) INFORMATION FOR SEQ ID NO: 2146:	
45 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2146:	
	GTTAATACAA TACGGTTAAC AGCACCTTTA CGnTAGTTGC TTTnCTGCAn	50
55		

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(b) Topologi: Timear	
•		
- 1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2147:	
10	(XI) SEGERCE DESCRIPTION. SEG ID NO. 2147.	
	AATCCCCTCT TTTCTCTATT TCCTAAATCA TAGAACTTTT AACAGTAAAA TTCAATCATT	60
	AATACATG	68
		,
15	(2) INFORMATION FOR SEQ ID NO: 2148:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid	
20 .	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2148:	
25	AGGTCCATTT GTAATTTATA ATGTTGACTA ATAACATCTA CAGAATTTAA CGTTCCCATA	60
	AGGICCATTI GIAATTIATA ATGITGACIA ATAACATCIA CAGAATTIAA CGITCCCATA	60
	CCTCGCCACT GATTGTAAAT AAACAAACCA TA	92
	Gordon Grand Mariana III	
	(2) INFORMATION FOR SEQ ID NO: 2149:	• •
30		
	(i) SEQUENCE CHARACTERISTICS:	
٠.,	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	the state of the s	
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2149:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO. 2143:	
40	ACCATCCATT AAATCAGGAT CTTCACTAAT AAGTGCTAAA TTAGCAGCGC CACGTTTAAC	60
	Nonicon Perodo Citatina Indiana Indiana	. • •
	GTAATCCAT	69
	(2) INFORMATION FOR SEQ ID NO: 2150:	
45		
1.5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 384 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2150:	

٠.	TCAAAATATA TACGATCACC TTTCTGTAAA ATCACACTAT TTTTATTTGC CGCTTCTGGA	120
	TGTTGTTTAA AAAATTGTTG GCCAACTTCA CCTTTTAACG TGGCAAATTG ATAATTTCTT	180
5	GGTAGGTCAT GTTGAATTAA CCAAATGACA TAGTTATAAC AATATATACA GTTTCCATCA	240
	TAATATACGA TTGGCATAAT TTATTCGCTC CTTTAATAGT ACTTATAGTC ATTTTTCCTA	300
10	ATTTAAAAAC ATTTAAACAA GGTTGTCACT TGATAAGTCC TCGCGACACG AAATTGCCAT	360
	AAAATTTATT TTTCAGnTTn ATAT	384
	(2) INFORMATION FOR SEQ ID NO: 2151:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2151:	
25	TGTTGTTTAT CACTATATTT TAAAAATAGT CTATAAGGCT TATCAGATGA AGTAGCTGCT	60
25	GGCGTAACAC CACCAGTAAA TGT	83
	(2) INFORMATION FOR SEQ ID NO: 2152:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2152:	
	GTATTCGTAC ATTTTCAGC AATTAACCAA GATGGTTACA AATCATTAGA AGAAGGTCAA	60
40	GCTGTTGAGT TTA	73
	(2) INFORMATION FOR SEQ ID NO: 2153:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2153:	
	cceccrocc cccroccocc cccccccc cccccccc	50
55		

*	(i) cooughide outrastamentement.			
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			*
•	(D) TOPOLOGY: linear			
•				
10	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2154:	anterior (anterior source) and the contract of	en remained a see
. •	TATTTTAGGC TTAGCATTGA TGATGTTGCT CAT	TTTCAAT AATATAGGAA	TTATT	55
	(2) INFORMATION FOR SEQ ID NO: 2155:	s en		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			• (
20	(b) Torologi. Illical			
	(xi) SEQUENCE DESCRIPTION: SEQ			
25	ATGCTTGCTG ATATAATGTA ATAGCGTCGT GAT	CTGGCTTATA	ATATACATTT	. 60
-	GCGAGATT			68
•	(2) INFORMATION FOR SEQ ID NO: 2156:	•		
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	± a		
35				
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2156:	* .	
,	TAATCTTTGT CGTCGAAATA CAAACTAACT TTT	IGAGTTTA ATGATGAAGG	TACGCATTGT	60
40	GTATCACT			68
	(2) INFORMATION FOR SEQ ID NO: 2157	:	* *	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid- (C) STRANDEDNESS: double (D) TOPOLOGY: linear	s		
50				
•	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2157:		
	TCATTCATTT TCCTCTTTTC TTTTATTTAA AA	TGTTCATG GTTGTTTCTC	TTAATTCTGT	60
55			•	

	AGATGCTAAA TGGTCAAATT GAATAATTGT TTCTAGACTC ATTTCATAAA TTTCGAAAAA	180
	TAATTCTTCG GGATTACGTT TTTGTATTTC TCCAAATGTT TCATAAAGCA AATCAATTTT	240
5	ATCAGCAACT GAAAGTATTT GGCCTTCTAA TGAATCATCT TTACCTTCTT GCAGTCGTTG	300
	CTTATAAACA TCTCTATATT GTAATGGAAT TTCTTCTTCA ATAAAGGTCT CTACCATTTC	360
10	TTCTTCAACT TGCGAAAATA ATTTTnnTAA TTCACTACTC	400
,,	(2) INFORMATION FOR SEQ ID NO: 2158:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2158:	
	TATTTTTTC TTCTAGGCAG TGTTAATACT GCTTCAATTT GTTTTTTACT AAATTGATAT	60
	TTCTCTATGA TTGAATTAAT CAATTGATTG TCCATTTACT TAACCCACAC TTTTTCTTAA	120
25	ATTTACTCAT TTATTTTAAC ATATTCTAAA ATACTTCTAT TAAGATATGA TACTTAATGT	180
	AATTTTCACT TCCAAAACAT TTAAAACGAA TGATTAGGnC ATACTATATT nT	232
30	(2) INFORMATION FOR SEQ ID NO: 2159:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2159:	,
40	CCGTTTTTCC AAAAACTTGA TCATAAACCC GCTCCTTTTT TCATCATAAC AAAATAAGAA	60
	(2) INFORMATION FOR SEQ ID NO: 2160:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2160:	
	CGATTTACTG CACGACACAT TGCCACATCC TGGATGGGCA ATCTTTTCTC TTACCCGTCT	60

EP. 0,786 519 A2

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
•		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2161:	copies a coeff
	ATTAGTTGAA GTTTTTGAGC AATTGAAAGA TATTCAGGGT CAAATAAAAA CGACAAAAAA	60
	AGAATATCAA CAGACCAACA AAGAACTTTC TGCTGTAGAT AAAGAAATTA GAAATATAGA	120
15	AAAAGACCTC AnTGATACAA AAAAAGCACA AAATGAATAC GAAGAGAAAT TGTATCAAGC	180
	ATATCGATAT ACCGAAAAAA TGAAAACACG TATTGATAGT TTGGCAACGC AAGAGGAAGA	240
	ATATACTTAT TTTTTCAATG GCGTCAAACA TATTTTGAAA GCTAAAAATA AAGAATTAAA	300
20	GGGTATTTAT GGTGCAGTTG CGGAAATTAT TGATGTGCCA TCTAAATTAA CTCAGGCAAT	360
	TGAAACAGCA TTAGGTGCTT CATTACNACA TGTCATTGNA	400
25	(2) INFORMATION FOR SEQ ID NO: 2162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	v .
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2162:	
35	GTGCGTACCA TTGTAATCTT CGTAAACTGG GTAATTATTT TGTCTTTCTT CATCATAAAG	60
	TAATAA	66
	(2) INFORMATION FOR SEQ ID NO: 2163:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45 .	(8) 101020011 22:001	
* :	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2163:	-
50	AGAATGGTAA CATGGTAATA ATAAAATATA AACAGAATAC TAGTTAATAC ACTTTATACT	60
,	AGAAAAGAT AT	72
	(2) INFORMATION FOR SEQ ID NO: 2164:	

5	(A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2164:	
10	CGATAATCTG TTTTTTAAA TCTGTTGCTG TTAGATTTAG CACCGATTCG TTTAACTTCA	60
	AATAATTTT ATTACCTTTG GAAGAAGTG GAACTATTGT AACTGTTTCT TTTCCTTTAT	120
	TGTCTTTGTT ATCTAATATT ACACAAAAAT GATTACCAGA AAACTCACTT CCAATATTAC	180
15	TCCCTAGTTT TACATATACC ACTGTTCCTC TACHATATGA TTTATAATAT CTTTHTTTAT	240
	TGCTTGTAAC ATCGCTATGT ATAGCAATTG GAATAAAACT CTAGCCAATG AGGCATGTnT	300
	ATAACTTTCA TGTTTTTACT GTCGG	325
20	(2) INFORMATION FOR SEQ ID NO: 2165:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2165:	
	TAAACCCCTT TTGGGTAAAA AAGTTTGGGA AAATTTCCCC GGGGGGAAAG GCCCCCAAAA	60
	AATTGTGCCC CTCCnCGGGG GAAAATTAAA ATTTCCCCCC TTTTAAAAGG GTTTCCCCTT	120
35	T	121
	(2) INFORMATION FOR SEQ ID NO: 2166:	,
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
· -	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2166:	
	CGGACAGTTA AATGAACTGT TCAATGAGCC CAGGATGTTG TAAATGGTTC GG	52
50	(2) INFORMATION FOR SEQ ID NO: 2167:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
CC	(C) SIMMUDDADG: COUNTE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2167:	
5	ATTACAGTAA AAAATGGATT AACATTACAA GCGTGTCTTG CTAGAGCAGC CAA	53
,	(2) INFORMATION FOR SEQ ID NO: 2168:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2168:	
	AAAGATTATT TATTTGCAGT CATTAATTGT GATTTAATAC GGTCAGCTTT GTTTGAATGT	60
	ATTAAATTAC nTTGAGCAGC TTTGTCTACT AACTTAACTG CTAAGCTTAC TAAT	114
20	(2) INFORMATION FOR SEQ ID NO: 2169:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2169:	
•	AAGGAACCCC CCCCCTTAA AATTTTTGGT GGTTTTAAAA AATTCCTTTG GATTTATTAC	60
	CTTTATTCCT ATMATTTTCC GTTTGGATTT TCCTGGATTA AATTTCCCCA TTAAGCCATT	120
35	TCCGCTTCCC TTATTTTATN ATTTTCCAAA ATTTCCAAAG GTTCCATTTG GGATTTTGGC	180
	AATCCTTTT TATTAAAATG GCCTAAAAAT TTTTT	215
	(2) INFORMATION FOR SEQ ID NO: 2170:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
45	(D) TOPOLOGY: linear	
	er en	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2170:	
50	TATCGTTTTT AGAAATGGAT GTTCTCTCCA AAGATGATGG TATCTAACAT TATCTTATTG	60
	GTATCATTAT GCAACCNTTA CAAAACATTT ACGCAAGATG ATACATTATC CAAC	114

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 76 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2171:	
10	ATCACAGATG AGATAACAGA TCCACTGTAA CTTTACAATA AATAAATGGT ATCATAATTA	60
	ACACGTAAAT GGTTTC	76
15	(2) INFORMATION FOR SEQ ID NO: 2172:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2172:	
	ATTATCACAA AATGTTGACA CGCAAAAAGT TGGTCAGTTA TCAATATGGT ATATAAATCT	60
	GAGA	64
30	(2) INFORMATION FOR SEQ ID NO: 2173:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2173:	
40	AÀAGGCCAAC CAACCAAAGG CCAAAATTAA CCGGCCAATT CCAAGGGGTT AATTAAACCC	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2174:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
<i>50</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2174:	

	CACCCCGCAC TCTCCCATCT TTTACCTACT GGCTTCTTTG CATTGCCCTG GCACCTCCGT	120
	CCTCAGCCTC CCAGGCTGTA TTCATTCATT CCCTTACTGA GCACGCACCA TACACCAAGC	180
5	ACCATTCAAG GTGAACCAGT CAAATGAAGG CCTGGCTCAT TTTAATGGGG GACAATGAGC	240
	ATTTTTGTTA CAATTTCATG GAGTGATGAG TGCTGTGAAG AACTAAACAG GTCAGGTGTA	300
10	AGTGGCTCAT GCCTGTAATC TCAGCACTTT GGGANGCCGA AGCAAGTGGA TCATTTAAGC	360
	CCAAGAGTCA AGACCAGCCT GGGGnnACAT AGTGAGANTC	400
	(2) INFORMATION FOR SEQ ID NO: 2175:	
. 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2175:	
	ATATCGTTTA AACCATCAAC AAGATTTTAT AGATGCAACT TTTACTGCGC TGAAATCAGA	60
25	TAGAGCACGT TTAAAAGAAG TGCCAGTTCA TGTTGAACTT ATAAGTTATA TTTCTAAATC	120
•	AAAATAAACT GCTATCTAAA ACGCAAAGTT GATCAAAATA TCGATTTTGT GTTTTTTATT	180
	GAGAAATTAT ATAGGAGTGT CAATCGATGA TTTATTGTGA ACAGAGCGTT TAATATTAAG	240
30	AGACTGGCAT GAAGATGATC TGTTACCTTT TCAAAAAATG AATGCGAATT ATGACGTACG	300
	TAAATATTTT CCAAGTTTAT TGAGTTANCG NCGTTCAGAA TTAGATATGA GACCTATGGA	360
35	TGCGGTTATn AAAGATTATG GCCATTGGGA TTATTGCCNG	400
	(2) INFORMATION FOR SEQ ID NO: 2176:	
40 °	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2176:	-
	TAAATCAAGG AAAGACATTT TAAGGTACGA AGGTTGATAA CAAAAAACCA ACAGATTTAG	60
.50	GGGTATCAGA G	71
	(2) INFORMATION FOR SEQ ID NO: 2177:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2177:	
	GTTGAATTAG GCAGCACGAT TATTGATGCT GAACTGTTAG AGTCAGATAA G	51
10	(2) INFORMATION FOR SEQ ID NO: 2178:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2178:	
	TTAATTAATG GTATTTACAT ATTCATAACC AAAGGATAAA ATAATTGTGA AATTATTCAC	60
	A .	61
25	(2) INFORMATION FOR SEQ ID NO: 2179:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2179: CATTTTACCA TGCAGCAAAT AATACAGGTG GTGCCGTTAA CAAACGTGAN	50
	(2) INFORMATION FOR SEQ ID NO: 2180:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Toronogi: Timear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2180:	
	GCCGAACGAA TCAAATACCA TACCTAATTG ACTGCAGGCA TGTCCATATA GTGCAGTTAA	60
50	CTGTCTACAA GGC	73
	(2) INFORMATION FOR SEQ ID NO: 2181:	
	·	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

	* .	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2181:	
	TACTTTTGGC GATATTCGGT ATCGTTATTA CAGTTATTTT ATATGCAATT AAATTGCCGG	60
10	GTTCTATCTT TATCGGTATG ATCATCACAG CAATCGTTGG TATGTTCACT GGATTGATTC	120
	3.3.000.00.00.00.00.00.00.00.00.00.00.00	
	AAATGCCATC TGGTATTGTG GGTAAGATTC CAAGTATTGA ACCAACGTTC GGTGCTGCAT	180
	TTGAAGCGTT TAAAGACCCA AGTCAATTAT TAACGATACA GTTCTTAATT GTTATTTTAA	240
15	CGTTCTTATT TATTGATTTC TTTGATACAG CTGGAACATT AGAAGCGGTT GCANCNCANG	300
-		
	c	301
	(2) INFORMATION FOR SEQ ID NO: 2182:	
20	to the second se	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	
25	(b) Totoboot. IIIIcul	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2182:	
30	TTGATTCGCC TTGGCCAGAA TTACTTTTGT TTTGGGCGTC ATTGCAAGTT TCTA	54
	11001110000 110000000 110000010 DITUGRATILITA	74
	(2) INFORMATION FOR SEQ ID NO: 2183:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
40	(**) CECUENCE DECORIDATION, CEC ID NO. 2183	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2183:	
	TTAGTHACAT TGGGACATTT AACTGATCCA CCAGTACTTT TGGCGATATT CGGTATCGTT	60
45	ATTACGTTAT TATTGCATAA TGCGGTCACT ACGAGACACC GCACTGAGTC CGATATCA	118
• 2	(2) INFORMATION FOR SEQ ID NO: 2184:	
	(2) INFORMATION FOR SEQ ID NO: 2164:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 303 base pairs	
-	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	AGATAGTTAT ATAAAGATTT CATCTTCTGT ATTACATTGA TATTTTTAGG TCCCTGTATA	, 60
	TAAAAATCAT ATGCCTCATC AACAACATCA CTTTTATTTT TGATTGCAAT TTGATGTAAT	120
5	ATCTTTTGAC TAAAAACACG ATTAATCATA TTTCTATTAT CCATAGCTAC GCACCTCCTT	180
	CAACATACAT TTAATGCTTA TCCTGTTAAT ATTATAAnCn ATTTTAAATG CCTATAGACA	240
10	TTATTTCTAT ACACATACGA TTATHAAATT GTATTGAAAC CAAATGATGG TTGCCAAACA	300
	CAT	303
	(2) INFORMATION FOR SEQ ID NO: 2185:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS; double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2185:	
25	CCGGGGTTTT GGTTAAACCC TCCCAAnATT TTTTTTAAGC CCAAACCTTG GAAAAACCCA	60
	GGCCACCCGT TGGAATTTTT AAGCCTTGGA TTAATCCGGT TTGGTTAACC	110
	(2) INFORMATION FOR SEQ ID NO: 2186:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2186:	-
10	CCTATATTGT CACCCAACTT CATTACGGCA CCTTTACCGA AAGATTTCTC CATATTTTTA	60
	ATTACTGTAT CTAAAGCTTT TTGACG	86
	(2) INFORMATION FOR SEQ ID NO: 2187:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
ió		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2187:	
	TITGCTAGAA AACATACCAC ATTTGCCAAT TATATTATTT ATTCTGATGT TTATTTTCGG	60

	TATTTAGAGG TGATAAAATT TGTCAACTAT TACAAAGACT AA	AAAAATAA	TCTTTATTAA	180
	TTATTTTATT GGTATATTAG CCTTGGCGTT TGCTGCTTAT AT	ATTATTA	AATAAAGGTT	240
5	AGAGTGAAAC GTGTTTATGA ACTAGACGTT CTAGTATAGT TA	CTACAGCT	TTAGTCAGAA	300
•	GGTATCATTG ATAAGATCAT ATTAAATCAA AGAGGCATTG AT	TATACACTA	AAAAGAGGCA	360
	AGATTACCTG CCTCTTTTTA GTmATTAAAT ATACGTGTTA			400-
10	(2) INFORMATION FOR SEQ ID NO: 2188:			. * .
	(i) SEQUENCE CHARACTERISTICS:	-		
	(A) LENGTH: 131 base pairs (B) TYPE: nucleic acid	_		
15	(C) STRANDEDNESS: double	• •	• 4	
	(D) TOPOLOGY: linear			•
		. •		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218	38:		
•	TTTTATAAAA TATCAGACAT TTTTGnTCAA CATACATCTC TT	TTCGATGTT	TCTAATACTT	60
	TATCATTAAC CATTACACCT TAAAGTTATG ATGTGGCATG TT	TTCTTATA	TTCATAACAT	120
25	CAATTTATC A		*	131
	(2) INFORMATION FOR SEQ ID NO: 2189:		· · · · · · · · · · · · · · · · · · ·	
	(i) SEQUENCE CHARACTERISTICS:			
30	(A) LENGTH: 85 base pairs		*	•
	(B) TYPE: nucleic acid	*		
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear	24 4		<i>:</i>
35		* .	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218	19.		
	(AI) DEGOENCE DESCRIPTION. SEG ID NO. 210			
	CGTAAAATAT TTTGATTTAA AATGGAGGGT ATTAATATGA AA	AGGTTCAT	GTAAAATCTA	60
40	GGGGTATTCC AATATTATAA GGCAC			, 85
	(2) INFORMATION FOR SEQ ID NO: 2190:			•
	(2) INFORMATION FOR SHEET ID NO. 2190.			
	(i) SEQUENCE CHARACTERISTICS:			
45	(A) LENGTH: 224 base pairs (B) TYPE: nucleic acid		**	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		•	
	(b) Torobot: Timeat	•		
50				.8
ӭυ	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219	90:		
	CCCGAGGAAT ACATGGCATT AAATACACGT TTAATATTTA TA	AAAGGTGAC	TTAATTTTGT	60

	ATAATTGTTT ATCAGTGATA AAATATTTGC AATAAGAAGA GAATGACTAA ATAATCTTAA	180
	TTTTCAGANA AGTAATTGTA ACCTTACTGG TCTTATGGTA ATAN	224
5	(2) INFORMATION FOR SEQ ID NO: 2191:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2191:	
	AGCTTTTGTA GTTTTCTTAA GCACACCGGC GATTTGATTA TTACATAAAG GATTCCCTTT	60
	TTTTGTTGTG AATATGAACC CTCTGTCAAC ATAGCTCGAA TTCCATCTTT TCAACATTTT	120
20	GTTTTCCAGT ATTATCTTTT TAAAAATTTC TACGGTTCTA GAATTGATGC TGATACTTCT	180
	TTTTGAACTT ATAGTCTTTG TAGTGTCTTT GTATCCGAAT CCTTTCTCGT ATTTAATGCG	240
	GTGAATTGTA CCTGTTATAT TGATAGTnTT GTTTAATAAA TCTATATCTT TTTCCTGCAG	300
25	TGCTTGTAGT TCTCCTATGC GCATACCAGT TAAAGCCTGT ACTTCTAAGA TGCTGGCAAT	360
	TAAAATGCGA TTTCGCTTTT GTAACTTATT ATCATTTAGT	400
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 2192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2192:	
40	GACGACTGAG AGGCCGTTGA ATTTGACGTT GCCATAThTT CAAATTTAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2193:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2193:	
	GTTGTTTTCA TATCAAAACA CCGTAGAATA AACAATGAAT GGAATTACTT TTGCAATGAT	60
55		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	*.
(-,);	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2194:	
10	CCAGTCACTG ACTACGTCTT CCTCGGTGCT GGCGGTGGAG CCATTCCCTT ATTACC	56
	(2) INFORMATION FOR SEQ ID NO: 2195:	.***
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
. ,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2195:	
	GTAGGGAAAG GAAAAACTGC TTCCATTGGG AAATGTTAAA CCTTGTTCCT TGGTGATGCC	60
25	ATTGGATTT	69
	(2) INFORMATION FOR SEQ ID NO: 2196:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2196:	
	ATATGACACT ATATTTTATA AACATACATT TAATGATTCA TTATACAATT GCCAA	55
40	(2) INFORMATION FOR SEQ ID NO: 2197:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷ .
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2197:	
	GCCCTAGTTC AATCATATAA CCATCTTTAC GATACGATTG AATCTTTCCC CCCGGACGAT	60
	TCGATGCTTC A	71

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2198:	
10	AGTAGCACAA CAGCCATGCG GAGACAGAGA ATCGTTAGAG ATTAATGGAG ATCA	54
	(2) INFORMATION FOR SEQ ID NO: 2199:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
*	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2199:	
	GGCGGTTTTA TATTTATCGT TGCAGTTATG CAAATTGTAC TTGGTAGAAG TATAGATTCT	. 60
25	CGTGATTCGA AAAAAGTACT TTTAACGGGA TTGGGAATAG TAATCATATC TAGCTTTATT	120
	TGTGCAGTGA CACATAACTT TATATTATTT GCTATATCAA GGTTATTTCA AGCAATTGGT	180
30	TGCGGAATTA TTCCTCTCGT GACTTTAACT TTATTAGCCA AACTAAGTAC AGATAATGGT	240
	AGAGCTCAAG CTATGGCGAA CTATCAAATA TTTTTATCAT GTGCACCAGC TTTGGCACCA	300
	ATCTTAGGGA GTACTTTAGG TGGCAAGATG GGGATATATT GGTATTTTAG TTTTTTTGGCT	360
35	CGTTATATCT ATCGGTATTA TITTTGGATA nCTnTnTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 2200:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2200:	
,	GGATATGCGA TGGATGACGC ATTGCTATAT CGGCAATTGn GAAGCTGCTG	50
50	(2) INFORMATION FOR SEQ ID NO: 2201:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	-

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2201:	
*	ATCGAATATC ACTACTATCT CTNTTNAAGT ATCTACAATC TCTCCAATCT	50
5	(2) INFORMATION FOR SEQ ID NO: 2202:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
.*	(D) TOPOLOGY: linear	• .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2202:	*
	TCGACAATCC TAATGCAATT GCTTCATGTG GNTGTGGTAG TTCATATTAG AACTGCAAAA	60
	GTTGCAGGTG ATCCTGAAAA TTGCTAATAA AATAACTTTT TAATGGTTAA CCCAATTTTT	120
20	GGGATACAAA TTGATATCAA TAACGATTAA GGACATATTT GATTATGTCC TATTTTTGCG	180
	TAAAGATATT TTGTTTTATT AAAAAGCTTA TTGAAAATTA AGAATCTGAC TATAAATAGT	240
25	ATTITAAATG ATCGTGATAG CGGATACATT TTTAATCGAA ATCAGGCTAC GAAAAAATTA	300
	ATTAATTTT TCACAATCTG ACTGAATCTT GCTTGAAAAT ATAACATAAA AGCTATAGAA	360
	TTAGTATTGG ATTAAAAATG TCTTTTTTGT GAACATCACA	400
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 2203:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	**.
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2203:	
40	GCGTTGTCCT TTTCGTGACA TGAAACAATG TGGAAAACAT AATTAAATnn AGGGAAAGTG	60
	TGAATAGTTA AAAAATTAGT ATTGTGTTAT AAAAAATAAT TAATACTGTT AGGATTTCAT	120
	TAACTAACTT AACGTTGGTT CAAAAATAGT TAAAAAGAGG TTAATTCATA GCGCAGTATC	180
45	TCACTTATAT AATGATAGTA GATTGTTCGT ATTACGTAAT TGAATTAATC ATATAAAAAT	240
	ATATTAAGAC AAATTTATAA ATAGATTGGG AGANTAGTAC TGTGAAATTA AAAACGTTAG	300
50	CTAAAGCAAC ATTGGCATTA GGCTTATTAA CTACTGGTGT GATTACATCA GAAGGCCAAG	360
	CAGTTCAAGC AAAAGAAAAG CAAGAGGGNG TACCACCATT	400

5	(A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2204:	
	GTTATTTTGT ATGGTTAGTC TTTAAAATAN ATATAGATAT TAAATATTTA TTTTACGAAT	60
	TGTTAAGTAA AGAAAAAATA TTAATCAATC CGGGTTACAT TTATGGCAGT AAAGAAAAGA	120
15	GTATAAGGCT ATCTTT	136
	(2) INFORMATION FOR SEQ ID NO: 2205:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2205:	
	TTTTATTTTT TCGCAATGAA AAACAATCTT TCTGCATCTT CATTATGTTC ATCTATATTA	60
	AAATCAGTAA ATGTTTCAAC ATGTTTAAAA CCAACTTGAG CTAACCAAGA CAAATATGTC	120
30	TTTTCATCAA ATGTTCTCTG AAAATGAGAC TCATCAAATC TTGAATATGT TTCATCTTCA	180
	TGTCGAATGA AAAATGTCAT ATCATGATAA ACACTTAAAG GTAAATCTCC TTGCACAGCA	240
35	TCCCATGCTA AAAAAATGTC CCCTTTATCA TCAATATAAC TTTGATTATT AAACAAAGTC	300
55	ATCATTTTAT AAACAGTATG TACATCAGAA ATAAATACAC CTGAATCAGT CAGATGATGA	360
	TAAACATTGA TGAATGTTTC AATCACTGCA GTTTCATCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 2206:	- , ,
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2206:	
50	TTGAATATCA TATAAAAACA TCAGGTTCAA AGTTGACTAC TCTTAATAAT ATAAAAATAA	60
	GAATTAAAAA CATTAAACGA TACTGCTCTG AGAACTTGCT TTTAAACAAA CTTGATACAA	120

	GTCAACTCGG AGATATGAAA GGAGCHATTA AATATGCAGT TAAATTTTAC AATTATCCAA	240
	ATGAATATTT GTTAACTAAT GTCAAAATTC CTAAAAGAAG ANAAACAATA GAGGATATCG	300
5	AAAAAGATGA ATCTAAAATG GTACCACTAT TTAGAAATGG AACCAAGTCC TACNGATACG	360
	TGATCATATA CTAATGGAT	379
	(2) INFORMATION FOR SEQ-ID NO: 2207:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* .
15	(a)	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2207:	,
20	CATCTTGGGA CGTTTTAAAA AGTAACGTAG CGAAGACTAT TGGAACAACA ATGAGAACCA	60
20	ATGCTAGAAG GATCAAAAAG TATTTTAAAA ATTTATTCAT GATTGATGCT CCTATATTAA	120
	ATTTNTGTTA AATCATA	137
25	(2) INFORMATION FOR SEQ ID NO: 2208:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2208:	
35	GCGCCGCTCT GTTCATTTTA CCTAAATCCA ACGTTTCAGG AATAGATGTT TTCAAACCAC	60
	TTTGAAATGG AT	72
40	(2) INFORMATION FOR SEQ ID NO: 2209:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2209:	
50	ATGTAGCAAC TAAAGATGAT AGTGGATAGC GACACGGTCA ATAAACTGCC TA	52
	(2) INFORMATION FOR SEQ ID NO: 2210:	

'

5	(A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2210:	
10	TTTTTTATGT TCTTTTTAA TAAGAGGGAA GTGAAGTTGT ATAAAAATGT ATTAAATATG	. 6
	CACTITITAT ACATTAACGA TICATATATG TCTATTATGT ACCAAATTTA TAATTTGTAT	12
	AATTTTCGAA CTGGTTAAAT TCGAAAAATA TCACTAATAT ATnTAGATCG ATGTGTAACA	18
15	TTACGTTCTA nTAATTTAAT GTTGCA	20
	(2) INFORMATION FOR SEQ ID NO: 2211:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2211:	
	ACGATGTATT TTGATATCGT TACCAAAGTC TTTTAATAAC TCATTTTCAT CTAAATAAAT	60
30	(2) INFORMATION FOR SEQ ID NO: 2212:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2212:	
40	TGATAAGGTT TGTCCCATCG CTATTTGAAA TGATGCATTG TAAAAAACTA TCATTTGTTG	60
	GTAATATCTT AGTTCGATGA CTTTCTTTCC AATCTTTCCG TGTCATAGAG ACAAGATTTT	120
45	TTGTAGCTAT CTTAGTTGCT TCTTGAATGT TCATTTGTTA TTCCTCCTTT TAAGATGTTT	180
	GTnTTCTTT AAATGCTAAA ATAATTGATT TCTTTTTATC ATTCGTGAAT ACGAAATTTT	240
	CGTATTCATT ACCTAAAAAA ATATCATCAT ATTTAACATT AAAAGCACTC ATATACTTAG	300
50	AAAGTAAACT AACnTTAATG GnTGTAGAGT C	331
	(2) INFORMATION FOR SEQ ID NO: 2213:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2213:	
	AGCATAAACC AAAAGATGCG GATATACTTG AACGCGTCAA AGATATACTT AATAAAAAG	60
10	A	61
	(2) INFORMATION FOR SEQ ID NO: 2214:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2214:	
	TCTATTTGAG TTTACATTTG ATTAAATGAA TGACAATTAT ATGAACCTGA CTTGGT	56
25	(2) INFORMATION FOR SEQ ID NO: 2215:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	٠
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2215:	. •
35	ATACCACTAC TATACAGTTA AATTAATATA CGTTAAAACT TTAATCCGAT ACATTGGTTA	60
٠	AAATGATGTT CCTCGCTGGT GGATCGAGAC ATACTTCGCT CTGACTTCTT TAGTCAGTTT	120
	TTTTTCAGCT TTTTAGGTGT AATCACTGAC TTTGTTACAT CACGTCAAAT TTACAGTCGC	180
40	TATTATCTTA ACTTATCHAC GCTTATCACA CATCAATTCA GATATTATAT TGCATTGGCG	240
	nctatcactt tgaacctgct gtgactggaa ctactggctg tcangagcga gggctgataa	300
	TGAGCATAAA GCAACATATA AGTAATACGG CCGAATATGT AAATTCGGCA GCTTTAGGCA	360
45	ATGCTGCCCG GGCATGACTA GNACATTCAC AAGAAGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2216:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2216:	
	TTTTTAAAAA AGGGGTTAAC CAAAGTTTTG GAACCCCAAA AAATTCCGGA GTTAAAAAAA	60
5	CCCCAAAAAA TTAAATTAAC CGGTTATTCC GTTCCAGGAG CCAAATTTTT ATGGTTCCAA	120
	TTnCCAAAGT GGG	133
	(2) INFORMATION FOR SEQ ID NO: 2217:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2217:	
20 ,	TACTCGTACC ATTAACCAGT CTGATTAACC ACAATACTAA GGTATTCAAT ACATCACTGA	60
	CATC	64
	(2) INFORMATION FOR SEQ ID NO: 2218:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2218:	
	TATTCTATAG AATATGGATA ACGTTTAACA TGATGTAGAG TATTCATCAT TGTAACACGT	60
35	CAATTTGATA TGTGAGATTA AC	82
	(2) INFORMATION FOR SEQ ID NO: 2219:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2219:	
	TTTGACGCAA TGATTTAGCT GTAAATATGC AATCTAAAGG AAAGTACCAC TTATGAGATG	60
50	TATTAAAACG	70
	(2) INFORMATION FOR SEQ ID NO: 2220:	

5	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2220:	
10	AAAAATTACC CCAAAGAATT GAAAATTTGT TGTTTGGGTT ACCGGGTTTA AGATTAATCC	60
70	GGTTGA	66
·	(2) INFORMATION FOR SEQ ID NO: 2221:	
15	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(will appropriate programment, SEO ID NO. 2221.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2221:	
25	GATCGCAACC AAAATAATGG TCTTCCTGGA TTATTACTTT ACCAGCTGGC ATAC	54
25	(2) INFORMATION FOR SEQ ID NO: 2222:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.00.4		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2222:	
	GTGTTGCTAC AGCTAnCATT TCATATTTAA CGnGTTGTGG TATTTCTAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2223:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2223:	-
	AATGGGGGNA CCCAGCNTGA GTTATGTCAT CATATCGGTA TGTGATACAT	50
50	(2) INFORMATION FOR SEQ ID NO: 2224:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		(c)	
		*		tu "
5				
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2224:		
	GTAGATGCGC CCTCATATGG ACAAAGATAA AGT	ATCAGCA GATTGGACGC	TTTA	54
10	(2) INFORMATION FOR SEQ ID NO: 2225:	* *		•
4.5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
15	(b) TOPOLOGI: Tinear			
	(xi) SEQUENCE DESCRIPTION: SEQ	D NO: 2225:		
20	CGAGACTICA CTTTGACTAA ACGCGTTAAG AAT	TAGATT ATGCTTACGA	TGAAGAAGAA	60
	TTA			63
	(2) INFORMATION FOR SEQ ID NO: 2226:		*	
25	(i) SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid			
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	\$		
30			- T	
	(xi) SEQUENCE DESCRIPTION: SEQ	D NO: 2226:		-
	TGGCCATTT TAATGGGGGG AAACCTTAAA AAG	GGTTTT TAATTTTAAA	CCAAG	55
,5	(2) TINFORMATION FOR SEQ ID NO: 2227:	=		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs	- (· · · · · · · · · · · · · · · · · ·		
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	(b) Torobodi. Tineai	(i) (i)	*	
5	(xi) SEQUENCE DESCRIPTION: SEQ	D NO: 2227:		
	TCCATTTGGT TGCCTTCTTT AAATAAACCT TGG	TTATGC CTTTCCTCCG	GTTAATTAAT	60
	GGGACCAGGG GCCAAAAATA CCCCCTTTTA AATA	TADATT CCCAAAATCC	ATAGTTAAAT	120
0	AATCCATTTG C			131
٠.	(2) INFORMATION FOR SEQ ID NO: 2228:		39	

5	(A) LENGTH: 350 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wi) SEQUENCE DESCRIPTION, GRO ID NO. 2228.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2228:	***
10	CCATCTGTGC TTCGTTAGGC GCTTTCGGCA TCACGGTGAT GGTTTGCGAC AGATCCGCCA	60
	TCCGGCTGAA TGGGAAGCCC GCGTTANAAA GGCGCGTAGA TCCGGCATCG GGATGAAGTG	20
	GTAATACTTC GAGAAGTCGA TGGTGGAGTC GTCACCAATC ACCACATGAT TCTGCACCGG 1	80
15	CTGGAAGGTA ATACAGTTAT CCACCGAACC GCCCGGCATC GGGTTCATAT ACTCAAAGTC 2	40
		00
	CATCCAGCAA ACCTTGTAAT ACCGGAnTCC GCAGCAGCAG GCGGTTTCGC 3	50
20	(2) INFORMATION FOR SEQ ID NO: 2229:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
:		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2229:	
, .	AACTAAAAAT ACTATATAAA AAAGGTTGTT ATAATTTAAT GGATATAAAT AAAAACGA	58
	(2) INFORMATION FOR SEQ ID NO: 2230:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2230:	
45	GGGCGAAAGC TGGACGGAGC CAACGTCGCG TGAGTGGATG GAAGGTTCTT	50
_1,	(2) INFORMATION FOR SEQ ID NO: 2231:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGCCATACGT GGTAAGCACA TGCTAAATTT GCCAGCCTGA AAATGTTTAG	50
	(2) INFORMATION FOR SEQ ID NO: 2232:	
.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2232:	
15	TGTATCATTT TGGCAAAATC ATAATCTTTA TCGTCGAATA CAACTACTTT TAAGTTTAAT	60
	GATGAAGGTA CGCATTGTGT AATCACTTCA TCTAACTTTT TTAAATCAGG TGTCATAGTT	120
	GAACTTGGnG GT	132
20	(2) INFORMATION FOR SEQ ID NO: 2233:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2233: GATCTTGAAG CAGTTGAAAC ATATGTATCA GATGCATTAA GACAAGTACA CTTACAATCA	60
	GACATTTTG CTGTATCA	78
35	(2) INFORMATION FOR SEQ ID NO: 2234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2234:	
45	TTTAGGCACA GACGGTAATA AGCTACAATT TTCATAAAAT CATCTCCTTn	50
	(2) INFORMATION FOR SEQ ID NO: 2235:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2235:
	ATCCTGGAAA ATCTGGTAAG ATATCTTGGA AATAACTAAT ACCAATTCCT AAAA 54
5	(2) INFORMATION FOR SEQ ID NO: 2236:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double
10	
	(D) TOPOLOGY: linear
- (4)	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2236:
	GGGTGATGGT CATTGACAAA GTCAACTTGT GATAAGCCAT GGATATTTTT CGTT 54
	(2) INFORMATION FOR SEQ ID NO: 2237:
20	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 50 base pairs
*	(B) TYPE: nucleic acid
	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear /
25	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2237:
	TTATTTACTT TAAATTTCTC AATCTACAGT GTAATCTTAT TTCTTATTAT 50
30	(2) INFORMATION FOR SEQ ID NO: 2238:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 74 base pairs
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double
	(D) TOPOLOGY: linear
	(5), 10200011 221001
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2238:
	CCTTAATGGG TTTTGGGGGG GGGCCCCCCC GGCCCAAAAC CTTTGGCCCA ATTGGTTCCT 60
	GGGTTAAGGA AAAA 74
45	(2) INFORMATION FOR SEQ ID NO: 2239:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 71 base pairs
	(B) TYPE: nucleic acid
50	(C) STRANDEDNESS: double
	(D) TOPOLOGY: linear

	CCACCCATGG CGCTTGACAA AATATGGATG GAACATAACC ACACCGTCCA AGTTCACTGT	60
	TAGCACCGTG T	71
5	(2) INFORMATION FOR SEQ ID NO: 2240:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240:	
	CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG	60
	TTTG	64
20	(2) INFORMATION FOR SEQ ID NO: 2241:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241:	4
30	CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG	58
	(2) INFORMATION FOR SEQ ID NO: 2242:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2242:	
	GACTCATCAC CGNTTGTTAA GANATACAAT TTATTACCCA GCANTTAACA	50
45	(2) INFORMATION FOR SEQ ID NO: 2243:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ARATTIGGAT TGGTTGGAAA TITACAGTTA AAATTTAAAG GGTGGATGGA AAAATTTAG	80
	GAACTTCTAA G	71
5	(2) INFORMATION FOR SEQ ID NO: 2244:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2244:	
	GGGGGCCCCT TGGGGGTTTG GGTTTTGGGG GGCCCCCCTT TTAAAAANTT	50
	(2) INFORMATION FOR SEQ ID NO: 2245:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2245:	
 30	TTATAATTTT TGAAAATAGA AGAGGGAAGC CTTAAATTAC CAAATGGATT TA	52
,	(2) INFORMATION FOR SEQ ID NO: 2246:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2246:	
	ATTAGTTGAA AAGTACAATA TTCCGCAAGT TACCAATCGA TACAGGTATT ACAAG	. 55
	(2) INFORMATION FOR SEQ ID NO: 2247:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	(2) INFORMATION FOR SEQ ID NO: 2248:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2248:	
	GGGAAGGTAA AACTTCCTGC TTTTTTTATA AGTATTCATA CTCTATTGCT ATATTAGTAG	6
15	AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG	10
	(2) INFORMATION FOR SEQ ID NO: 2249:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249:	
	GTTGGATACC TGTAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC	60
	ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG	120
30	GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA	168
	(2) INFORMATION FOR SEQ ID NO: 2250:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250:	
	TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGChA TACCAAAGGG	50
45	(2) INFORMATION FOR SEQ ID NO: 2251:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	GCAGAACATA CCACGTGTCG CTGATTACCA ATACAGTAGA TCAAGATGGA CTCGATTGC	29
	(2) INFORMATION FOR SEQ ID NO: 2252:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2252:	
15	GTTTGTGTTT TAATTTTAAG GGGAAGGGAT TTTTTTTACCA AATGGGAATT TT	52
	(2) INFORMATION FOR SEQ ID NO: 2253:	*
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2253:	
	AGTGTAATTA GAAAGGCAAG TACACCTGTT TAAAGTTTAT CTTCTAAGAT TTGTTTACTT	60
30	TAGAACTATA GCAGTTAATC	80
	(2) INFORMATION FOR SEQ ID NO: 2254:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2254:	
	GTAAATGACA GAGGAAATAT AACAATGATT AATAATGTTA CAGCATTTAC TGCAAATATC	60
45	TACTAT	66
	(2) INFORMATION FOR SEQ ID NO: 2255:	•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ACATGTGTTA ACTCTTTGGC AATATATCCT GTTTCTTCTT CTAATTCACG	50
_	(2) INFORMATION FOR SEQ ID NO: 2256:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(w.) analytical programmers are to very	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2256:	
13	AATCTTTTAT AGGAAAGAAA GAAGAAGATG TTATCAGTTG CGATTATCGG CCCAGGCGCT	60
	GTCGGTACA	69
20	(2) INFORMATION FOR SEQ ID NO: 2257:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2257:	
30	TAGCGGGAGA TAGAAAAACC ATTCCGCATT AGCTTTGGTC AAGTTGGGAA TGGGTAAAAA	60
	AATA	64
	(2) INFORMATION FOR SEQ ID NO: 2258:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2258:	
45	GGTTAAGGTA TGGCGAAATA TCTCCAACAA CACTTCAAAA GGTTCAAGAA AATAGAAGTC	60
	GACTGAACAA TGTCATTCAC ATGTGTGCGT CATGCACACC nTATGT	106
	(2) INFORMATION FOR SEQ ID NO: 2259:	•
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 79 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2259:	. ,
	CGGAATAACT GACTATGTAT CATTTGATGT TATTAACATC AATATTTTTG GTTAAATGAT	60
5	ATGCTAGAAA TAAAGCATA	79
	(2) INFORMATION FOR SEQ ID NO: 2260:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	13, 2020-2031	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2260:	
	GCTGGnTGTT AnTGGCAGAG CATGTGAGCT GGATAATCAG TTGGAGAGGC	50
. 20	(2) INFORMATION FOR SEQ ID NO: 2261:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
25	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Totobodi. Illiadi	
		-
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2261:	
	nCCATTAATG ACCGAGATTA GTGAGCATGC ACAAATTGTT ATGGTAGGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2262:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2262:	•
45	AATGAACCAC ATAATGACAA CTTGAATGAC AATATGAATA TGATGTCAAC A	51
~	(2) INFORMATION FOR SEQ ID NO: 2263:	-
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	CATTAGGTGC TTATATAAAT TACTTTGTGG TGGCTCCAAA ACTTCGGGTT	AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2264:	0	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•	
10	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2264:		
15	TTTCnTCCCC CCCCGGGGT TTTTTGGTCC CTTTTTTTT TTAAATTTCC		50
	(2) INFORMATION FOR SEQ ID NO: 2265:	····	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
25			
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2265:		
	TCATTCATAG AGGTGTAAAG ACATAAGGGG AGCTTAACTG CGAGGACCTA	CA	52
30	(2) INFORMATION FOR SEQ ID NO: 2266:	•	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2266:		
	AGATGATGCA ATAATGGTGC AGTATAGAAG TACTGAGCAA TGCAAATTTT	AGACG	55
	(2) INFORMATION FOR SEQ ID NO: 2267:		٠
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	e en en en	
50			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2267:		
55	GTTCATCACA TTTATTACAT TCAGCGTTGG AATCAGTACT GGGTTATCAT	G	51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2268:	
	CTGTTGACAA CAAATTAAAA ATGACAACAT GTCGTAGTTA TAGTTAATTG ATTG	54
	(2) INFORMATION FOR SEQ ID NO: 2269:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2269:	
	AACCAAAAAG AAAGCAAGGT CAAGGAAATT TCAGCGNGAC GTATCTTTAG TTTTGAATAA	60
25	GCATATTAAT ATGGTGATAA TATGCAAGAn AACCTGTTTA TTCGATTCAA TGAAATTATA	120
	TTATTAATAT ACTTAATCAG TATCATTTGC TATTTTTATG ATTTTGTACA AAAAAGTCAT	180
30	AAGATTAGAA GTTTAGGCAT ATATTTATTG GGGATTGTTT GGGTTTTACA AACAATCTCT	240
	TTATCTATTT TTATTATACA AACTAGACAT ATTCCATTAG GGnCTATTTC AGATGTATTC	300
	TATACTTTAA GT	312
35	(2) INFORMATION FOR SEQ ID NO: 2270:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	1
		,
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2270:	
~	GTTGATGGAT TCTCTTGGTT TGGTGTAGTC ACAATTTCTG AACTGGCCCT TGTTTACG	58
	(2) INFORMATION FOR SEQ ID NO: 2271:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	y .	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2271:	
5	CGTTCAGACG CTAAATCAGG CACCAGGTTG TACAATTGTC CTGGTTCTTC	50
,	(2) INFORMATION FOR SEQ ID NO: 2272:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2272:	
	CAGGTGTTGG TAAAACATTT GAGATGCTTT CAAATGCCAT TGAACTATTT CAAAGTAA	58
20	(2) INFORMATION FOR SEQ ID NO: 2273:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2273:	ı
30	TTATAAATTG GTGTAACAAT TTCATACACA TGATCATTCT TTGATTGAGG TAAAAATGAT	60
	TCTACTAAAC GTACACGTTT ATGCTTCTTA TATTCTTTCA TCAATAAATA TCTATGATTA	120
35	GCTAATGATA AATTTAGTAG AAGCTTGTTA TCTCCATAAA CTAAATTCAC GATATTAGGT	180
55	ATATTGAATT GTTCTTGATA TTTCAAAAAT TGTTGATCCC ATTCTTCATT TTTAGGTAAA	240
	GGTAATACCA TCTCGTTAAT TTTCCAATAT GCTGGTTTAA GAATGACATT TTTATATCTG	300
40	ATTCGTGGTG AATAACTAAA TGAATCAATA CTCACATCAT TCATAGGTTC AATGCATTTC	360
	ACAGATTCCA TTGAAATTTC TCGTAACAAT CGATAThAAT	400
	(2) INFORMATION FOR SEQ ID NO: 2274:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2274:	
55	GGGTACAAAT TTGTnGATGA TAGAAAAGTT CGTATCGCTA GAAAGTCTGG	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		.0	
		#p.		
10	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO: 2275:		· .
	TGATTTACCA GTTGATTACG ACAAAGAAGA ATTT	TTCAAGA ATTGT	GAAG CATCAAAA	CG 60
	CATTA		*	65
15	(2) INFORMATION FOR SEQ ID NO: 2276:			
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	(b) TOPOLOGI: IInear		· . ·	
25	(xi) SEQUENCE DESCRIPTION: SEQ 1	•	*	
	ATGGCGTTCC ACCAGCAGTC AATAATCCTG TTGG	GATAAA TGCCAI	ATACT GTCGA	55
	(2) INFORMATION FOR SEQ ID NO: 2277:			
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		*	
35				
	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO: 2277:		•
40	TAATAAATCA CGTGCATTTA CGCTCACTAG CTTT	CATCTC CTCAT	TTTG CTTTCAA	
	TTATTAAGTA TGAATA			76
**	(2) INFORMATION FOR SEQ ID NO: 2278:	=		3ec
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		San	
	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO: 2278:		
0.	GTGGCTTTGT CTGTGTTATT GTAGTTTTGT TTCC			CC 60

	(2) INFORMATION FOR SEQ ID NO: 2279:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2279:	
	TTAAGTGCCA AAGTCCTTGG TAGCCAGAAT GAACCACCAA CCTCCATTTT TCCAAAAATG	60
15	GTCTTACCT	69
	(2) INFORMATION FOR SEQ ID NO: 2280:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2280:	
	GGATGGAATT GGGTTAAGAA TAAAAAAGGT AATAATTGAG TTTATGATAA TAATAATAAT	60
30	ATTGAGA	67
35	(2) INFORMATION FOR SEQ ID NO: 2281: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2281:	50
	TTGTTACTTC GGCACGGATA AATCCACGTT CAAAATCAGT ATGAATGATA CCAGCACATT	60
45	GAGGTGCAGT CATACC	76
	(2) INFORMATION FOR SEQ ID NO: 2282:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AACCCAGAAG ACTTATTATT AGAATCTTAA TCCACAACAC AAAATAGTTT ACTATTCCTA 60
	AAAGCGGGAT TAAATCAATA ACAAACAGCA GTAAGATTAT TTCCTAGTCG AAATATCTTA 120
5	CTGCTGTACT TTATTTn 137
	(2) INFORMATION FOR SEQ ID NO: 2283:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
15	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2283:
÷.	ACAAAGATTT ACTATTTAAC TAATTTATAT GAAGAATAGC TTTCCCTAAT AA 52
20	(2) INFORMATION FOR SEQ ID NO: 2284:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
٠	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2284:
	ACTCCTGCAT ATCACAACTA GATTAAATAT ACATCAAACA GATATAGTAA A 51
	(2) INFORMATION FOR SEQ ID NO: 2285:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2285:
45	CTAACATGTG TGAACGATAT GCAAATTCAA TATCTCATTC ACGCTTTGCA CTTTATTACT 60
	ACAATCAACG TAACTAT
	(2) INFORMATION FOR SEQ ID NO: 2286:
50 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
55	(D) TOPOLOGI: linear

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2286:	
5 ·	AAACCTGTAT TTTTAATAAA CAATCGCTTG GACCTATTCA CTGCAGCTCT TCTGGGAC	58
,	(2) INFORMATION FOR SEQ ID NO: 2287:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287:	
	AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG	60
20	ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT	. 120
	TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA	180
	TCATATAATT TTGAAGAATT AATA	204
25	(2) INFORMATION FOR SEQ ID NO: 2288:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288:	
35	GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2289:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45 _.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289:	
	TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG	53
50	(2) INFORMATION FOR SEQ ID NO: 2290:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2290:	-
	TTGGAGGTCA ATGTTCGGCG TAATCTTCAA TGTTTCCGTA CACAATTGCT GCGGTTGACA	60
5	CACATACG	68
	(2) INFORMATION FOR SEQ ID NO: 2291:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
**	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
. 15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2291:	
	TTCGACGAAT TAAAACAAAT CCTTTTATAT GTTGAAGTGT ATTCGAGATT AAA	53
20	(2) INFORMATION FOR SEQ ID NO: 2292:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs	-
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		:, '
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2292:	
30	ATCANTIGTC AACATCTAAT ATTCACTACC AATTATATCG CCACATGTTT TTTAGCAGTA	60
	ACA	63
35	(2) INFORMATION FOR SEQ ID NO: 2293:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2293:	
٠.	CGACTCAGGT CCATCAAGAG AGACACATTT CGACTACAGG TTATTACTTC TTTGA-	- 55
	(2) INFORMATION FOR SEQ ID NO: 2294:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2294:	
	AAATTTTGGT TAATTTTAAA ACCAAAAAAC CTTGGAAGGA AATGGCCCTT TTCCCAATTT	60
5	T	61
	(2) INFORMATION FOR SEQ ID NO: 2295:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2295:	
	AATCITAAAA CCTATGGCGT CTATTACATT CCCAAAACCT ATTTTCAGNA ATGTTACCAA	60
20	TTAAACTTGC CGGGGTATGG ACCAGGGTAC CAGGCTAAAA ACTGGAAGAA AGGAAGGAAT	120
	TTTAGAAAAT AATTTATTAA CATGGACCAG GTAACTAA	158
25	(2) INFORMATION FOR SEQ ID NO: 2296: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2296:	
35	TGTTCCAACG ATGAATGTTT GCATGCTTTG TTGCACTGAA ATTGATGAGT TGCTACTTGC	60
	AATCCTAG	68
	(2) INFORMATION FOR SEQ ID NO: 2297:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2297:	
50	GTAGGGATTT TTTTTAACCG GGATAGCCCA ACCAAAATTT AATTAATTTT GGGTTTTTGG	60
	ATTGAAGGAA TT	72

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2298:	
10	AAAAATTnTA CCAGGTGAAA AATTATTTTG GTAGGATTTA AATnTAATGG TTTAAATGGT	. 60
	GGTTTATTAC CTAATTTAAA AATGGTTAAA AGGGCCTTTA CCATTTTAA AATTTAATCC	120
15	GCCTTTTGGG AGGGGGATTT TAGGGATGGT CCAGTTAGGA CCCCATTACC ACTGGAAACC	180
	AACTTAAAAT TTGACCAAAT TTCCTGGAAA AAA	213
	(2) INFORMATION FOR SEQ ID NO: 2299:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2299:	
	TATTITTAAA GGAGGGTAAT AATCITAATT TAAGITCATT ATTITTACIT TCATTATAAA	60
30	TATTTAATGT TACTTTCTTA TTTAGATAAC AATAAAAAAA TATAATCTCT nAAAACCCAA	120
	TGAAACAGCT GCTCCAAACA ATTAGTTCTT CTAATTGAA	159
	(2) INFORMATION FOR SEQ ID NO: 2300:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2300: ACAAGGTCAT TCGGATTTGA CTTTGTTTCA ATTGTTAAAT TTTGCTCCAT CAATTGTCTA	60
	ATTCT	65
	,	73
50 55	(2) INFORMATION FOR SEQ ID NO: 2301: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(XI) DESCRIPTION. DESCRIPTION.	
5	TTTATTCTTA TTTAAAAACC CAntGAAAGT ANTCTTTNCA TTANTAAAAA	50
٠	(2) INFORMATION FOR SEQ ID NO: 2302:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	*	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2302:	
	GAGATATATG CATGAGCTCT ACGACTTCTT TAGGTTTCAT GGCGACTATC CTGGCAGGGA	60
20	TG	62
	(2) INFORMATION FOR SEQ ID NO: 2303:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>(</i>)•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2303:	*
	ACCAATCCCG TTGTTTTGGT TTTTTAAAAA AAGGAAATTC CAAAAATCCC CCATTT	56
35	(2) INFORMATION FOR SEQ ID NO: 2304:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2304:	
45	TTTAAAACCC AACGGGTTTG GTTAAAATGG CCTGGGCTTT TCCAAAACTT GGC	53
•	(2) INFORMATION FOR SEQ ID NO: 2305:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2305:	
	CGAACAGGTT GCCACTGTAA GATCTGGTGG CATTTAATGG CAATCGTATT TTATTTGGAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2306:	
	(i) SEQUENCE CHARACTERISTICS: -(A) LENGTH: 74 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2306:	
	CTTTATAATG GCGGCGCACT TGGCATCTCT GCATTCAGTT ACACGCGGTG GCAACACAAA	60
	ATTTAGGGAA TTCT	74
20	(2) INFORMATION FOR SEQ ID NO: 2307:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2307: TGTCCATGCA CAGCTTTATT GGAATTTACC TTTTTACAGG CAACCGCTAA AGA	53
	(2) INFORMATION FOR SEQ ID NO: 2308:	,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2308:	
	TAAATGATTA TGGGAATATC CAAAATTATC GAGATCTAAT ATGAAGTGAC TGCACACATA	60
45	TCAGCTCTGA ATGAAT	76
	(2) INFORMATION FOR SEQ ID NO: 2309:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2309:	
•	TCCTCAAAAT GTGAGTTAAT AGTCGAGTGG AAGCTGTGAC TTGAGCGACG ATACATCATC	60
5	ANACTATCAA TAATGTTTGC ACATCACTTT TACTACTATC ATTTGATGTA TAAATAC	117
	(2) INFORMATION FOR SEQ ID NO: 2310:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2310:	
	AAACTCATAT CGCTTCCGAT AACCAACCCT GCTGCTGTTG GTACAAATTG TC	52
20	(2) INFORMATION FOR SEQ ID NO: 2311:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2311:	
30	AACACTGGAG TCCTAATGTC ATCAAACATC TACCTATAAG ACCTTATATA ATCGTC	56
	(2) INFORMATION FOR SEQ ID NO: 2312:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2312:	
	GATAACATCA TAGGCCATAA CTTCCATTTA GGCCATCAGT TATAGCATGC GGACGACATA	60
45	CTGTGCCATA TG	72
	(2) INFORMATION FOR SEQ ID NO: 2313:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2313:	
	CATCTAATGG GAACGTGTCG ATCCTAGTCA GTATAGTCAT CGGCAGGTAC GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2314:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2314:	
	TAAACTGAAA TITAATTITC GGATGGTATT GTTATTAAGA AATAGACATA ATTTGTGCTG	60
	GATA	64
20	(2) INFORMATION FOR SEQ ID NO: 2315:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2315:	59
	CTAGTTTAAA TTTCTTAAAC TTCTACATCA GTAAAAGGCC GCTCTGGGAC CATACAATC	33
	(2) INFORMATION FOR SEQ ID NO: 2316:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2316:	
	GCATAGTAAC TTAATTGATA GGAGATGAAA ATCCGCAAAG TCATTGGAAG GATT	54
45	(2) INFORMATION FOR SEQ ID NO: 2317:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GIAIAIGCIG GAAAGAIAAA GIAIGGANAA IGCAIGGCGA ACAITIIGIA AGCAGAAIGA	60
	GCTATAAGCG TTGAATGGGT TTGAACGTAA ACAATCGAAC AATGATATGT CAGACATACT	120
5	TGCTTTAGAG CACATTTAGA GAGCGACATG	150
	(2) INFORMATION FOR SEQ ID NO: 2318:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2318:	•.
,	AAATCATCGA TGTTAAATAA TTTAATGACA AGGATTAATG AAAGACGGAT TG	52
20	(2) INFORMATION FOR SEQ ID NO: 2319:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	•
		٠.
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2319:	
	TTAAGGAAAC CTTGGCCAAG GTTAAGGAAA ACCGGGGGTT CCAAGGTTTT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2320:	*
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2320:	٠.
	ATGAAGTTGA TTTAGGATGA AAATTAATCT TGGGATATTT AATACTTTGT	50
45	(2) INFORMATION FOR SEQ ID NO: 2321:	-
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CTAACGCTAA GGGCGACGGA TGGTGGTNAT GTCAAAGAGA CAAATAGGAT	ŗ	50 -
	(2) INFORMATION FOR SEQ ID NO: 2322:		Ť. 0
5	(i) SEQUENCE CHARACTERISTICS:		
y **	(A) LENGTH: 108 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	make first adopted and in replical processors respectively.	
. 10	(D) TOPOLOGI: Illiear		
. 10			
	· · · · · · · · · · · · · · · · · · ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2322:		
15	CGTGGTGATT AATTTTTCGT CGCGTTTTGT TTCCTTTCCC CAGTCATGT	r TTATCATTGT	60
	GGGCATCATT GCACCTGGGT TCCATATTAT GACGTCATTT TTTANAAT		108
	(2) INFORMATION FOR SEQ ID NO: 2323:	• •	
	444		
20	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 212 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		•
	(D) TOPOLOGY: linear		
25			
	*	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2323:		. *
	GTCACCGAAT TTCGATTTAT ATTATCACTC AATTTATTAT CTTGAAGCA	C GCGTTAAATC	60
30			
	GTCTTTAAAT TGNAACAGTT GCTACTTTAT TGTCTTTACC ATTGATCTG	A ATTTGATCCG	. 120
	CTTTAAGTCC ACTATCTTTT ACAACTTGCn CTACCTTTTG TTGAGTAAT	T GCTTGTTTAG	180
35	ATTGGAAATC TACGCGTGTA CCACTTGAAA AA		212
33 .			
	(2) INFORMATION FOR SEQ ID NO: 2324:	* *	
	(i) SEQUENCE CHARACTERISTICS:	*	
	(A) LENGTH: 133 base pairs		
40	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	(5) 101020011 223002		
	and the second of the second o	• • •	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2324:		
	TCATTTGTTT TTAATACGTT GTCAAAATTA CCAACAAATG ACAAATTAA	A TTTTGCAATA	60
		3 330masaaa	120
	CATATCAAGG TGTTATTTT TTCCTATTTT AATTATGTAT AACGCATTA	A AAGIGACGITI	120
50			
	AATATTCAAA GGA		133
	(2) INFORMATION FOR SEQ ID NO: 2325:		

5	(A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2325:	
10	ATGAACGACC GTGGACAGAC AATATTTAAA GCATTTAAAA ACAGCGTTCC CAGAAAGACA	60
	ATATATAACC AATATTAACA AAAGCAATGC ACATTACTTC ACAAATGAAA TCAAAGCAAC	120
	ACACATATAC AATGCAATAA GCGGGCAACA ACAAACAGAT TTCAACACGC CTGTCATACA	180
15	GCAATATCGT TAACAAATGA CANCCGCCNT TTAGGC	216
	(2) INFORMATION FOR SEQ ID NO: 2326:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2326:	
	TGACCATATG ATTGAGGAAG GTTTTATTGA TCCTAAGTAT CGTGCTCTTG CACCGTTATG	60
30	CGACACTAAG GAATCATTAA TTGAATCAAT ATTAAATTTn AAACCTCTGG GTACTCGTTC	120
00	ATACGATTAA TCATTCTAAG G	141
	(2) INFORMATION FOR SEQ ID NO: 2327:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2327:	
	TGAAACTGCA GCGTGGCCGA GTGGGGGTTG TGCCAGGTGA CCCCAGATGG GCGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2328:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

۹., ٤.,

	GAAGCCAGCC TAATTGGATA CCACCGGAAG TAACTTTTGA CCAGGGCCGT CGCA 54	
	(2) INFORMATION FOR SEQ ID NO: 2329:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
name in suppression assessment	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2329:	
15	GTTCCCGGGT CCAGGCCGTT GTCTTGTGCC GGGGTGTTTG GTCCTTGGTT GTGT 54	
	(2) INFORMATION FOR SEQ ID NO: 2330:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2330:	
25	TATATTATAT ATTTAACTGC TGTGATGTAT TCTGAAAAAA TAGTAGTATT GCCTATAATC 60	
	ATCTATGCCA TTGTGTTTGT AATAATTGGT ATCACTTATA TCTTTATAGG CGACAGCTAT 120	
30	GATCAATTAA CAAATTTCAA TGTGATTTG TATATGGGGA GTTTGTnTTA TGCATGGATG	
	GCTATTAGAA 190	
35	(2) INFORMATION FOR SEQ ID NO: 2331:	
33	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2331:	
45	TTTTCACCTC GTGTTTTAAA TTCAATTGAA TCTAAACTAA AAGTACCTTT AAGT	
	(2) INFORMATION FOR SEQ ID NO: 2332:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2332:	
	TTCTAAAAAT ATTAACGAAT TATACAACTT TAAGAGTTTT TAGTATGTAA ATATTCTTTT	60
5	CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT	120
	TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT	. 180
10	ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG	240
	TTAAAT	246
	(2) INFORMATION FOR SEQ ID NO: 2333:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333:	
	CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA	52
25	(2) INFORMATION FOR SEQ ID NO: 2334:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334:	
	AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT	60
40	(2) INFORMATION FOR SEQ ID NO: 2335:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	
50	CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA	60
	AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG	120
	MINICIONAL ACCORDANA COCCUMICANA MACACINA MINICIPAL MINICIPAL MACACINA MACA	

(2) INFORMATION FOR SEQ ID NO: 2336:

6	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2336:	-
	CCTACAGTCC CAACACTGTC AGTACACTGC CGATACCCAA CCTCTGGCCG GTCCGGCA	58
15	(2) INFORMATION FOR SEQ ID NO: 2337:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ar L
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2337:	
. '	ATATTTTTNA TTTAATGGTT TTACTACTGC TACAACTATC ATAGGTGGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2338:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2338:	
	CTCCTGTAGA TITAAAATCT CCTAAATAAC AAACGAATAA TCGGCCATCT TTATGTATTT	60
40	TGATTGCTGC AGGATTCGCT TTGTGACTTA CAAAAGGTCG TTTGATTTCC TTCGTTTCAG	120
	GATIGATITI GAAAATATIG CCTTCGAATA CATCCAATAA AAAGAGTTGT CCCTGCCGAT	180
	CAAAGTTCAA TCCTTCTAGT TGCAATCCTT TTTTGGAAAT TTCAAGCCAT GGTTCAGCTG	240
45	TAATTGTTTG TAATTCACTT TCAGATATAA-TTGGAACAGC ACTATTGGAC TTCCCGCDAT	300
		360
	AAAATAATGG AGGGnAAAnC TGGTGGGGAC ATCCATGAGC CATTCCTTTC CATTCCATTC	
50	GGTTTTAACT AACCAATT	378
	(2) INFORMATION FOR SEQ ID NO: 2339:	
	(i) SPOUENCE CHARACTERISTICS:	

(A) LENGTH: 50 base pairs

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2339:	
	ATGAAAATAA ACTGTGTCTC CHGATGTATA CGTCCCTTCA AGCAGACTTC	50
10	(2) INFORMATION FOR SEQ ID NO: 2340:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2340:	
	TATCCATATG TGAAAAATGT CATATATGAG TCTAGTTTTG TATAAATGGA GACTCGAAC	59
	(2) INFORMATION FOR SEQ ID NO: 2341:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2341:	
	ATTGATAAAA TATGATTAAG CGTTGTTGCA AATGACATTT TCTCAAAAAG CGCTTCACTA	60
35	TCAATTGGTA CTTGTGTGTn AATTTCAGCC AGTCGCTTCG ATAAATATAG TTCATCTAAA	120
	TTGTCATTAA TCTTATTACG TTGCCCAGCT GATAATGCAT CAATGTTTTC AACCACATTT	180
	TCAACGCTT	189
40	(2) INFORMATION FOR SEQ ID NO: 2342:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2342:	•
	ATCAATTAAA ACAAAGCATA CAACAATTTG TTGATGTTGA ATCTAAATCA ATTTTAGAAC	60
	AACAAATGAT TCATCAGCTT CAACAAATGG ATCGTTCTTA TGTAGAGATG ATTACAGAAT	120
55		

	(2) INFORMATION FOR SEQ ID NO: 2343:		
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2343:	e fran	
	CTTAACCCCC CTTTTTTCCC AATTTTAATG GGGAAAAATT GTAATTAACC TGG	GC .	55
15	(2) INFORMATION FOR SEQ ID NO: 2344:	*	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid		
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
		-	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2344:		50
. 20	GACAAATAAA CATGACCTGG ACAAAGAAGA ACAATAAACA AGCCTGGCAA	•	50
30	(2) INFORMATION FOR SEQ ID NO: 2345: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
35		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2345:		
	GTATTGCGAT GATGCATACG GGTATTGTTC TGATTAAATA ATATTTCATA TTT	AATGTTG	60
40	ATAAATGTTG AATAAACAAT CCGCAAAGNG CACTTGATGA TAGTGCTAAG A	,	111
	(2) INFORMATION FOR SEQ ID NO: 2346:		•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2346:		
	GCAAACAGTT TCCGTGTCCG TTTTCCAATT AAGTTAAGGA ACCCAAAGAG A		51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2347:	
10	TCGTAGGTGC CATAACACAC GTTACCTGGG ACTCATATGA AGTATTATGT CGAGACGACC	60
	(2) INFORMATION FOR SEQ ID NO: 2348:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2348:	,
	GTTTTTAATA GGCTCTTTAC GTATCTAAAA ATAATTGCAT TATTGGTGTG CCTTGATGTA	60
25	ATTGAATTAA AGTACCGTTT GGTTGTAACG TTTCAGGTAT ATCATTTTCA ACNATAAC	118
	(2) INFORMATION FOR SEQ ID NO: 2349:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2349:	
	ATGACAGAAA GCAAAATCCC AATGTTGATA TACCGTTTTT GACACCACTT GATTATCATT	60
40	ATTTTTTCTT TAGCGATGGA TTTTATATTA CGATTTCAAT TCTTACTATC GTTGCATTAT	120
	TGTCATTCAA ACTGTATCGT TTTTACTnTT ATAGACTTTT CGCAATAGTA ACATGG	176
	(2) INFORMATION FOR SEQ ID NO: 2350:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2350:	

4:

	CTACGACIGA CATTAACIGI GCAGATGIAC CIGGATICIA TITTICAAG ACCULITION	-20
•	AATAATTGAT AGTTATATGG TGCAATGTCA CCTTCATCCA TTGAGCGCTC AATAATTTCA	180
<i>5</i>	GCTGCnAGAG CGGCnTGACT G	201
	(2) INFORMATION FOR SEQ ID NO: 2351:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*.
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2351:	
	ATCGCTATAA CCTATCAGTG ATAATATTTG ATTGCATGGT GCACCATTTG ANATTTCACT	60
20	TAGAATGGTG GTACCTAATT GCTTATTTTT ATATGTCATT TGAAGATTTA AAAATTAAAA	120
	ACTITIGATAC AGAGTGAAAC CATATITCAA CAAATTAC	158
25	(2) INFORMATION FOR SEQ ID NO: 2352:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2352:	
35	TCGTAATCAA AACATTTTGA ACAGGATTAT AGTAAGGGAA TTTTTGGATT TTAACTTGTG	60
	TTTGTTCATT TTTTAATAAG AGTCGAGCTA AGTCTTGCAA CATCATTACT TGCTTGGCAT	120
40	CTAACTGTTC GTCATTAAAT TTTATGAAAC GATCACTCAT GTTTTATCCC TCTTTAAAAG	180
40	TTTAGTTCTA CAGCATTATA TATTGCTTGT TGTTCACGTT CATCTTCCAA TTTATCAATA	240
-)(-	ATTGTACGTT TAATTGCACG TTCAACTGGC ATTACAGTGA TTAAATCACA CAAGTCTAAT	300
45	AATGCACGGG ATACTAGCGG CTTCTTCAGA AATTTGTCCC TGCTTAGACA TAGTACGTAA	360
= :	ATCTTCATTG AAACTTMAAT AATTTGGTTC GATTTGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 2353:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2353:	
	ATTAATGGGG TTAAATAACA TTTTGACTGC GAAAGATTTA TTCTTTTCAG GTAAATCATT	60
5	GATAGATGTA TATAGTCAAT TTGCTGGATT AGCTGAAATG ATAAATGTnT TTGCGAATGC	120
	ACCATT	127
10	(2) INFORMATION FOR SEQ ID NO: 2354:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2354:	
20	ATCTCGCTGT TTTTATGAAA GAAAACTACA TTTTCGAGAG AATAAAAAGA TTTTTCTGAA	60
	ATTTAATCTA TCAATTACAT TGATTTACTA ATATAATTAG AAAGTAAATT TTATTTGATC	120
25	AAAGTAAATG GGGGAAGTAC TGTGATAGAA AATAAGAAAA CAGTTGAAGA TACATATTCA	180
25	ACAGGCGCAA TTGTTGATTC AATATCATCT TCAGTnCAAA TGn	223
	(2) INFORMATION FOR SEQ ID NO: 2355:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2355:	
	ACACTTGTTC AAACACTCAC AATGATAAAG CATATTATCA GTATTGTAGT GTGTGGAAAA	60
40	TGACAGCCAT CTAAGGAGAA AAATGATGAA AAGAATATTG GTAGTATTTT TAATGTTAGC	120
	AATTATATTG GCAGGTTGTT CTAATAAAGG TGAAAAGTAT CAAAAAGATA TTGATAAAGT	180
45	GTACAAAGAA CAGAATCAAA TGAATAAAAT TGCCTCGAAA GTACAAAACA CTATTAAAAC	240
	AGACATTAAA CAAGAAGACA GTAATACACA TGTTTATAAA GATGGTAAAG TCATTGTTAT	300
	TGGTATTCAA TTATATAAAG nTCGTGAAAA AATGTATTTA TTTCGCATAT GAAnTAAAAG	360
50	GTGGTTAAGG CCAGAGGATT TAATCAGNGG AAANTAGACC	400
	(2) INFORMATION FOR SEQ ID NO: 2356:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2356:	•
	AATTTACTTT GTGCCACAAG GTTATCAATG TCTTTTGAAC CACCAAACAT TCTAGCGATT	60
10	AAGTGACCTC CATCATCGTC TGGTAATCTA TCCTCTCCCC CCACAGTTCT TTGTGCATGG	120
	CTATTACGAT CCCCATCTTT TAGAGAGAGA TTGTCTACAT AAACTTCTTT TATGCGACCT	180
	TTATGATCGG TTCGATATAT GTGACCAGTA GGTGTTGTGT ATTCAATATT CGCCTTTAGT	240
15	TTCTTAGGTn CTAAGTCTTG GCATAGTGTT CTCCGAATTC NAACCTTGGT GTTAGTTTGG	300
	TGATTCAACA TACTTTTGAT GGAATTCATT TNCATGGGCT ACTT	344
	(2) INFORMATION FOR SEQ ID NO: 2357:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) 10202001. 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2357:	
30	TATGCGCCCC TGCTTGATCT TTCATTTGCG TCCACTCAAT TAGTTGTTTG CGC	53
30	(2) INFORMATION FOR SEQ ID NO: 2358:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	A CONTROL DESCRIPTION SEC ID NO. 2359.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2358:	60
	ATTTTTTCAC CTTCTGAAAT TGATAAATCT AGGTTATCGA ATATAGTCTT ATCGGCATAA	120
45	GATTTATTTA AATGTTCAAT TTTATATGCT TCCATACCCA TCTTCCTTCT TCTGTTGAAA	
•	TCTCTACGTA CTTAAATCAG TTCTATACAT TATACACCTT TTTGAAATCA AAAGAAATCG	180
EO	ATACCGTTAA GTGTCATAAT TTAATATATT GTTGCTTCAA CTATAAATAA AACTTGTTAA	240
50	GGCTTTGATG ACTATGCTAA TGATCTTTAT AATATACCTT TTTATCAACA CATATAATGT	300
	AAAACATAAT ATAHAAGAAC ATAATAAAAA CCCGGATTGA TATTTTATCA ATCCGAGTTC	360
55	GTGTTTAGAT ATTATTTTTT AGAGTTTGCT TTAGGTCCTG	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2359:	
10	TTAATGTCGC CATTTTTGT TAGGTAGACG TATAAATCTG GACCTTTTGA TGATTTGTAG	60
	TTAGTAAGCA TTAATTTACC ATTTTTAATC TCAGCTTTAC CTTCAACAGT TTCACCGTTT	120
15	TTAGAACTGA nTGTACCTGT TAGGTGTTTT GTTT	154
	(2) INFORMATION FOR SEQ ID NO: 2360:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2360:	
30	ATATGTCTTG TGATTTTTCA GGTGTAAGTT AGTATGCAAG TGATTATGAT TGATAGT (2) INFORMATION FOR SEQ ID NO: 2361:	57
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2361: GGCATCAAAT TAGTAGCGAC TCACACGTGA TGCATCCTGT GTTTTGGATC TCATTTCT	58
	(2) INFORMATION FOR SEQ ID NO: 2362:	,
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2362:	
55	TGTTATTATC GNAGAGGCTT TTCGCTTTGG AATAAGGTAT TACGTGAATG	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
ernement.		energy (the company)
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2363:	
	CTCTTCTGGT CCCTGACATA CATAGGAGAA ATAGCNCCAT GTACAACGTG	50
	(2) INFORMATION FOR SEQ ID NO: 2364:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANCONESS: double	
20	(D) TOPOLOGY: linear	
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2364:	
25	ATTGCCAATG TCGTTAGTTC GTGAGGCTGT TGGTGAAAGT TGTGTTTGAA	50
20 .	(2) INFORMATION FOR SEQ ID NO: 2365:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2365:	•
	CCATGATTTA AATCATTGAT TAATGGTGCT TGTTCTACAT CTGTGTAAAA TTCATACAAT	60
40	TCTTTAGCAT CGTCGAATAG TTCATCACGA CGTTGGnTAA ATTCTTCTTC T	111
40	(2) INFORMATION FOR SEQ ID NO: 2366:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* - 2 -
	(D) TOPODOGI. IIMORI	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2366:	
	TAATGCTGAG CGTGTTACTT TAGTTGGATC AACGATACCT TCTTCTAACA TATTAACCCA	· 60
<i>55</i>	CTCnTTTGTA GCAGCGTTAA AACCAACACC CGGCTCTGCG TTTTTCAAAC GTTCTACAAT	120

	(2) INFORMATION FOR SEQ ID NO: 2367:	
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2367:	
	CCTGATTGCA AAGTACAGCA AGCACTACAG ACGCCTAAnC ACTnACACTA	5
15	(2) INFORMATION FOR SEQ ID NO: 2368:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2368:	
	AAAATGGTAT TGCAATTAGT AATGTTACAA CAAGTGTTGT AATAGCTGCA TAAAT	55
	(2) INFORMATION FOR SEQ ID NO: 2369:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2369:	
	TATAGGATGA AAATCCTGCC AAAAGATTAA GGGGTGGCCT AATGAACCAT G	51
40	(2) INFORMATION FOR SEQ ID NO: 2370:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2370:	
	TTGCTCGAGG TGGTAAATAC GCAAAGTTTA TTTGGTTGTG CTAAGAGAGA AA	52
	(2) INFORMATION FOR SEQ ID NO: 2371:	
<i>55</i>		

	(A) LENGTH: 66 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(b) TOPOLOGI: Timeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2371:	
10	TAATTTGAAT AAGGTGGAAG TGATAAACAG TGCTTTGCGA ATCTAGAGTC ATTAATCAAA	60
	ACCCTA	66
	(2) INFORMATION FOR SEQ ID NO: 2372:	
15	(i) SEQUENCE CHARACTERISTICS:	f
	(A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2372:	
25	AGACAGGTAC TGTCCTACGG TATGGAGCAG AAGCGGGAAA GCTGCCCAGA GCCAACTGTA	60
	GACAA	65
	(2) INFORMATION FOR SEQ ID NO: 2373:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2373:	
40	TTGCAGTGAC GGCTTATAAT CATTCCAAGC GAACAATTAG ACATTCCATA TAAAATATAC	60
	AGATGGCTTT CAGTAGAGTA GTGGATTCGG ATTCACGAAC TATACTGGAA GCTTTTTATT	120
	ATAAATGAAG AGAAGTTATA TTTTTAGCAT GTATAGTTGA ATACTGGGTT AAAATACCAT	180
45	ATTAATAATG AAGTAAAGGT ATGAGTGATT ATGAAAGTGT TTTGAATGAA	240
	TTGGTGATGC TTTTAATTGA AAAGATTAAC AGGATTCAAC TTGGTAAATT GTATTAAATG	3.00
	TGAGAAAATA AAAGTATATT CATTGAGAGA TATATGAGTC AATGATCGTT TTAAACAAGA	360
50	TAAGTGTATT TTAATATGTA AAAGTTATGT AATAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 2374:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2374:	
	CCTATCATGC CTCTCTCA CTGAATCCTT TAGATCCCCT TCCCTCCTC TCCCCCCTCT	60
10	TTTCCCCTCC	70
	(2) INFORMATION FOR SEQ ID NO: 2375:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2375:	
	CCAAGTCAGA GCAGCAGTTC AGTTCGTCAG CNGTTCAGTT CAGAGCNGTC	50
25	(2) INFORMATION FOR SEQ ID NO: 2376:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2376:	50
	GTTGGTGAAG CTGTTGCCGA nGGAGAAGCG GGTATGGATC CTGACGGTGn	50
40	(2) INFORMATION FOR SEQ ID NO: 2377: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2377:	
	AATTGCAGGA CAGGTCAAAG GCAAATGCAC GTATTCAGGT CATGCTCATG TGCATGTTG	59
50	(2) INFORMATION FOR SEQ ID NO: 2378:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2378:	
5	TTTATCATCG TATAAATCTA TATCTAATTG ATTAAACTTC GGGTGCTTAA CTAACTCTCT	60
	CAATACACTT ACACCAGCAG TTCCCATGCC TATTATTGCT ACACGCATAT ATCATCCATC	120
	CTTTTGTAAT TCAAAATATT ATATTTAAAC TATTACCTAT AATTATAGCA ATTTGGTATT	180
10	TCCAATAAAA TTTATnAAGG TAAGCNATTA TTTCACTTTC ACAACCATT	229
	(2) INFORMATION FOR SEQ ID NO: 2379:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2379:	
	AGTTTTTGT TTGACGTATT TAATTTACTA TTTGCTTGAT TGATATTTTT AGACATTAAA	. 60
25	TAGTGTTCTC CTAATCAATT TATTCTTCTT TATTCCAGCA TTATTCGCAC TGACAT	116
	(2) INFORMATION FOR SEQ ID NO: 2380:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	α.
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2380:	
	CAAATCTTAG CGGATGATTG GCATGTATAT TCTGCTGGTA TCGAANCACG CGGTGTTAAT	60
40	CCCAAAGCGA TAGAAGCTAT GAACAGAAGT CGGCGTTGAT ATGTCGAATC GTACGTCAGA	120
•	TTTAATCGAT AATAAT	136
	(2) INFORMATION FOR SEQ ID NO: 2381:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	0 <u></u>
50		

2222

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2381:

	TTAATTGATA GCTTTTATCT GTAGGAAAAG CTATTTTAAA GATTTCTAGT GTATCTATAA	120
	CTTTTTTGGG ACGATATTGA ATATTACAAT CTTTAAATGC CTTTTTAATA AAATTCAAAT	180
5	CAAAATCTAC ATTATGAGCT ACAAAAATGC AATCTTTAT CTTATCGTAG ATTTCTTGTG	240
	CAACTTGATT AAAATATGGC GCTTGTTGTA GCATATTTTC TTCAATGGAT GTTAACGCTT	300
10	GAATGAACGG CGGAATCTCT AAATTTGTTC TAATCATAGA ATGATATGTA TCAATAATTT	360
10	GGTTATTGCG CACAAACGTT ATACCAATTT GAATGATATC	400
	(2) INFORMATION FOR SEQ ID NO: 2382:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2382:	,
	TATTTTGTTA ATAAAGTTAA TATATGTTTG TTGTACAGAT AGTTCAGGAT ACA	53
25	(2) INFORMATION FOR SEQ ID NO: 2383:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2383:	
	CCCGAGCTTG CCCTCTTCC CCCCTCTTCG CCTCCAGACG AAGTGCCCTT CTGTCCTTG	59
	(2) INFORMATION FOR SEQ ID NO: 2384:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2384:	
50	AGCCAACATC CCHGATGGTA CTTGCATTAA TGCATAACCT AGAGAGAAGA ATGATGCCAA	60
	TARACCARAT TGTGGTTTTG TCATCCCTAR ATCATCCATC ATTTGCTTAG	110
	(2) INFORMATION FOR SEQ ID NO: 2385:	
55		

(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

		* .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2385:	
10	TGAAAGTTCT TTTANGCATC AATTTTAANA CTACGAGCGG ACNCTAATAT	50
	(2) INFORMATION FOR SEQ ID NO: 2386:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2386:	
	GGCAATTTAT TGACACAATG CTTGAGCNAT TGATAGCAGG ACAAGAAAGA ATACTTGATG	60
25	AGTTAATACC AAAAATGGAT GCGACTGAAA AATTAACGCT TTATTTAACT AGTCATTATA	120
	AACAGATAGA TTATGAATTT TTGTATCTCC TTTCAATGGA TAAATTGTTT GGAAATAAAA	180
	GAAATAGATT AACATTAATT GATTTAGAAA ACATATTGGG AGTAGGAAGA GTAAAAATTA	240
30	GTnGT	245
	(2) INFORMATION FOR SEQ ID NO: 2387:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2387:	
	CACAAAATTC GAAATCGTCA TCGGTGATAT GTTTAATACT TGGGAAAATA TAAAACGCGC	60
45	CTTCAGGTTG AGCGGTAATC TCAAAACCTA ATTTAGTTAA TTCAGATACT AAATAATTTC	120
*	TTCGTTCnAC ATAAGCTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 2388:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	12, 22, 22, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2388:	
	ATATAACATT GTAGGGCCTA ATAATTTATT TTATGTCTCA GACTCATACA ATGGTTATTT	60
5	AACTTATTTA CCACAAATTG AGCACTAAGA CTCACTATTA TCGATTCTTC TATTGAACAn	120
	(2) INFORMATION FOR SEQ ID NO: 2389:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2389:	
	TCTAAATCCA GCATGATCTA CATCAAAGCT GAATTCACCT TTTTCATCGA CTTGCAAATC	60
20	AGGGAATTCT TGACCTTCAC CTAGT	85
	(2) INFORMATION FOR SEQ ID NO: 2390:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2390:	
•	GGTGTTTATA AAGCAGGGGC TGAGCCTCGG TCAGGACTGG ATACACAGGC AGTACGGGTG	60
35	A	61
	(2) INFORMATION FOR SEQ ID NO: 2391:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2391:	
	TAAAGTAACC ACTTTAGATG ACATTTTAGA AGTTATGGGC CGAATGCAAA C	51
50	(2) INFORMATION FOR SEQ ID NO: 2392:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	•
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2392:	
5	GGTCGGAnTC CCGGGTCGAC CCACGCGTCC GCATCAACCT AGnAGAAGCn	50
	(2) INFORMATION FOR SEQ ID NO: 2393:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	A C A C C COMP
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2393:	
	ATTTCCAAAC GAATTGAAAA ACGGACGTAA ATTCTTAACT AAAGGCGATA AATGT	55
20	(2) INFORMATION FOR SEQ ID NO: 2394:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2394:	60
	ATAGGTTGCT ACTATTTATA TCGACTCATT TTCACTTACA AATATGACAT TGTCTCTAGA	60
	ACACNAAAAT TAATTTGCGT CATATCTGCT ACAGTTTTGA GTGTGTTATC AAGTGTATTT	120
35	(2) INFORMATION FOR SEQ ID NO: 2395:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2395:	
**-	TGGACCATAG TAAAGCATTA EGGTEGGTTT ATTATTTTCT AAGGAAGTAT GTTTATATAA	60
	ATCTATGCTC ATTTGTTTTT TAGCGTCTGT TTGACCTATT ATTTTAGAAC CAGCCATCTG	120
50	CTCTTTATAA AAATTTATTA CATCATCTTT TTTTAATGTT GTATATTCAT AGTTTATTTC	180
	TATTATNTCA GAATCGTGAA AACTATTTAG TGATTGANAT ACTCTTTTTG GAGGATTCTG	240
	AATATAGATT TTCTTAATAT T	261

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2396:	
	GTTTTGAATA TAGGGGCTTT TATCACTCTC CGAAGTCTnT TCTAAGTTAG ATTTGGAAAA	60
	TAACACTTTT TTAGTTTCAT TCAAGCGAGT CGAGTGACTC CAGA	104
15	(2) INFORMATION FOR SEQ ID NO: 2397:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397:	
25	GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT	54
	(2) INFORMATION FOR SEQ ID NO: 2398:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 235 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	*
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398:	
	GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA	60
40	TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT	120
	TITTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA	180
	GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT	235
45	(2) INFORMATION FOR SEQ ID NO: 2399;	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·

	TTTGATGCAC TTATTTGTGT AATGACATCT TTACAGTCTT TTCCTTCCTC CATCATTTTA	60
	ATAATTCCAT TTAGTTGCCC TTGTATTCTA TTAATACGAT TAATCATTTT n	111
5	(2) INFORMATION FOR SEQ ID NO: 2400:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2400:	·
::	AAATGCTGGC TGAGTTTTGG GCCACCCGCA AAGGCACTGG ACCGGTGCGA AACC	54
	(2) INFORMATION FOR SEQ ID NO: 2401:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid	
	(B) TYPE: NUCLEIC acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2401:	
	AACCACTCAT CACTACTAAA ATGATACTTA AAAACAAAGT CTTAATACAC TTTTTCATAA	60
30	TATCAACTIC TITCTATATI TAATACATTA ATTATACATC TITNINAAAT AAAAATATGT	120
	GTAAAATTTT AAAACTTATT TAATTGATGT TTTAATAATG TATTATAGAA ATTATTGACA	180
35	TATGATTAAA AACCCTTAGG ATAGT	205
	(2) INFORMATION FOR SEQ ID NO: 2402:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2402:	
	AGATAATCAT AGAGAAAGTC CACAGTCGGT AGAGGTGGTA GCTGAAAACA ACATACTATT	60
50	AATTATGAAG TGCTTTGTAA CTTGTCGAGA CGTTTGCCGC GAATCTATCA TGATGGTGAT	120
	CAACGTTTTG THACAAATGA	140
	(2) INFORMATION FOR SEQ ID NO: 2403:	

(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2403:	
10	ATTTAACCAC TCCTCCAATG ATAAGATTGA AAGGCAAGAT GACCTTCCAA TCTTATTT	58
	(2) INFORMATION FOR SEQ ID NO: 2404:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(D) TOPOLOGI: TIMEAL	-
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2404:	
	CAGCITCTAC AATACGGCGT GCTATAGCAA GCATTAATGT AAATCCTAAT TCTGCAGTTG	60
25	T	61
	(2) INFORMATION FOR SEQ ID NO: 2405:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2405:	
	AATAATCATT TTAATACGGT CTTCAGGAAT TGAAGTGTCT ACAGGTACAT ATCCACATCC	60
40	TGCTTTAATG GGCACCAATC ATCCCAACAA TCATATATGG TGACATGTGA CCGANTAAAA	120
	TCATCGGGTT TCTnACTACC TTGTAATCGA TGTGGCTAAT TTACTAGACT CATCCATTAA	180
	CTGTTGATAA GTTAATTCCA TCAGTTGTGT GTCTAAC	217
45	(2) INFORMATION FOR SEQ ID NO: 2406:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2406:

	GIAGIATECA ACGIATITES GATISCATES ASTISTATES	
	TCAAGCGCAn CTGTATTACG TCTTACTTTA GGTTTTATTT GCTCTATTGC CTTGATTGTT	180
5	TGATHTCTAA CATCAGTAAC AGCAGCATCT TGATTTGTAT TGTCTATT	228
	(2) INFORMATION FOR SEQ ID NO: 2407:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	e de epe
15		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2407:	
	CCTTTCGTCT CGCGCGTTTC GGTGATGACG GTGAAAACCT CTGACACATG CAGCTCCCGG	60
20	AGACGGTCAC AGCTTGTCTG TAAAGCGGAT GCCGGGNAGC AGACAGCGAT	110
	(2) INFORMATION FOR SEQ ID NO: 2408:	0
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs	•
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2408:	
	GGAGACCCCA AAAATTTTGT CGTTGAAGAT GCCTTTTTTT AAGCGTTATT TGGCTATATC	60
35	AGTTTCTAAC TGT	73
	(2) INFORMATION FOR SEQ ID NO: 2409:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	• •
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2409:	
	AAATCATTAG AGAGGAATAG TTCCCTTTGT TACGCCAAAG ATTCGATATT GAC	53
	(2) INFORMATION FOR SEQ ID NO: 2410:	
50		-
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	· 3
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2410:	
	CCATATGATT GTATAGGATC CATGACGTCT CCACTGACCC CTGACTCTAG TATC	54
5	(2) INFORMATION FOR SEQ ID NO: 2411:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2411:	
	GTTCCTCTTC AATTGTTATA TGTATATCAC AAAAATTATT TCATTATTTT ACCATTATTA	60
	TTTTACAAAT ATTATCCCAA GAATACAATT CAAGAAATGA TTAACTTTAC TTTAGAATTG	120
20	TACCTTATTA CATTATTTAT GAAAGTACTC TCTCAATTAT AACNAAAAAG AAGGTGTTCA	180
	ATACATHCAT ATTTAGTCTT ATAT	204
	(2) INFORMATION FOR SEQ ID NO: 2412:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(b) Toronogi: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2412:	
35	CAGTGGCGCA GAAACATAAC GCTCAGGGAA GCACAGCACC TCATTATGCC AAAGCT	56
	(2) INFORMATION FOR SEQ ID NO: 2413:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2413:	
	TCGCTGGCGG GTCCCGCGCG CCTAGCGTGC TCATGTGCGG TGTTCTAGGT GTTGGGGTTG	60
	CAGTCA	66
50	(2) INFORMATION FOR SEQ ID NO: 2414:	

5	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2414:	
10	GGATAGAAAT GGGAATCCAC CCATCGGTGG GGGTACCAGG CTCTTCATAT GGCCTTGTGG	60
<u>.</u> ,	ACTTC	- 65
	(2) INFORMATION FOR SEQ ID NO: 2415:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
20	(D) TOPOLOGY: linear	
,20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2415:	
25	TTAAATAGAT AGAATAGAAT TAAAGAGACG ATGATAGGTG CTGCTATCGT CTTAAAAACG	60
25	ATGATAAAAG GATCAAAAAC ATATGATACT TTTTCGAAAA TAAAAATAAC AATACCCAAC	120
	AATACTAGCG CTATTAATGA GAAGACTAAA TCATTCCCAC CAACAAACTT CATATACCGT	180
30	GATTCGGTAA ATTTTnnAAA ATTCTTTCTT ATATTCTTTT CATTTCATT CAATTATAGA	240
	TTCACCACCA CTTAAAATAT TCATAAG	267
	(2) INFORMATION FOR SEQ ID NO: 2416:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) Torologi: Tilleal	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2416:	
45	TTAAACAAAT GAATATAGTA GTTCCATTAT CCTCACTTTT AATCGTTTAT	50
43 - / -	(2) INFORMATION FOR SEQ ID NO: 2417:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TITOTION OFFICE GARANTAINC ACMITTACTI GACATICAAC TIGATAAAAA	60
	ATTAGTTATT GCCATATGTT GCATCACATT TATAGGGATT TTAATATTTT ATGTACGCCT	120
5	AATTAAAAA TCATCTTTAA ATATTTATAA TACTAAAAAT AAAAGGTCAA AAATnTT	. 177
	(2) INFORMATION FOR SEQ ID NO: 2418:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2418:	
	AAAATGAAGC GGTCGCAAAA TATAATGACG TGAAAGCATT TTATACTCAT GGACATTTAT	60
20	ATCAAGTCAA TCGAACAAGA GATTTATTAG CTGAAAAAGG ACTTGAATTA GGTTGTTTGT	120
	TTGCATTTTA TGGACATACA CATGTGGCAA AATATGAGTA TATTAATGGT GTTCATGTTA	180
	TTAATCCTGG AAGTATATCT CAATCTAGAA GTTCAATGGA AGAAACATAT GCTGAAGTTA	240
25	TTATTGATGA TCAAACTTTA CATGGCACCA TCAATTTCAA AAATCGACAT CACGAAACAA	300
	TCAGTCATAC TACTTTTTAA ATAGAANTAG CTATGGCTTT TTTTAGTTTA TAGACTGATT	360
30	TAACTAGGAG GTCGTGTCAT CCAATGTTTG TTTAAAAGTA	400
30	(2) INFORMATION FOR SEQ ID NO: 2419:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2419:	
	AGGGTGCCGA GTTAACCAAG AAAGGCCGTT GGTTGCCCCG GGTATTTTCC CCC	53
45	(2) INFORMATION FOR SEQ ID NO: 2420:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(vi) SPOURNER DESCRIPTION, SPO ID NO. 2420	

	(2) INFORMATION FOR SEQ ID NO: 2421:			_
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
•	(D) TOPOLOGY: linear			
10			and the second of the second second second	enterent in 2 grap sections and
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2421:	* .	
	ACCAGAAGAC AATAAGTGTA ATGATGCCTG TTCTAATACA	GAATCTTTAC	TTTTTATTGC	60
15	CTTTTCAAGT CGTTGTTCCA CTTTCTTAAT TTCATTGTTC	ATGTTTAACT	TTGCCAnGTT	120
	AATCACCTTT GGTATTATCT TTTTCTTTAT AG		** *	152
	(2) INFORMATION FOR SEQ ID NO: 2422:	· · · · · · · · · · · · · · · · · · ·		
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	*		
25	(b) Topologi: Timear		*	
	With the second			*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2422:		. do
<i>30</i> ·	GTACGTTTTC ATTAGTTGTT ATATTTCCAT CTTGATAATT	TTTTAAATCT	TTAAAATCAG	60
	CATACTGACT AAAAAATTTA AAATTTTCAA TTTTTTGTnT	AAGTTTTTGT	CTTCTACATT	120
	ATCCAAAAGA ACAATCTHAT TATTTTTTAG TTCAACACGA	TATTTTTCT	CATTATGATT	180
35	TTTGCTAATA TCATCATAAA CTTTATTTAC AAAATAATAA	CCTGTTGCCT	TTTTGGTATT	240
	TCTATTAAGA TATAACACCA TGCCTTCATC ATCTAATACT	CCTGGTTTGT	TACTTTTTGA	300
	AAAACCn			307
40	(2) INFORMATION FOR SEQ ID NO: 2423:		· · · · · · · · · · · · · · · · · · ·	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*		· y
		2423		7
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:			- احد
	ATTGTGTTGT ATTTTAGACA AGACCTTCAA TTTTGGAGAT	TTCACGATTT	ACCACC	56
	(2) INFORMATION FOR SEQ ID NO: 2424:			

(2) INFORMATION FOR SEQ ID NO: 2425: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTTT CGATTTCATT 25 CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 30 AAGCTTTT (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:	5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10 AGTECTTIGG ATCGTCAAGA TITCACACAT TTACANTTAT TANCTCGTGA (2) INFORMATION FOR SEQ ID NO: 2425: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTTT CGATTTCATT ACGTCTTTG CTTATTGTTG TAATTGCTTCC AGTAGGATCA GAATCATTTA TITTGCTTAT ACGTCTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 18: CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 24: (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TYPE: nucleic acid (C) STRANBEDNESS: double	•	(vi) SPOUPNCE DESCRIPTION, SEC. ID NO. 2404	
(2) INFORMATION FOR SEQ ID NO: 2425: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTTT CGATTTCATT (CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 126 ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 186 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 30 AAGCTTTT (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double		(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2424:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTTT CGATTTCATT 60 25 CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 30 AAGCTTTT (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 45 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	10	AGTCCTTTGG ATCGTCAAGA TTTCACACAT TTACANTTAT TANCTCGTGA	50
(A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTAT GATTTCATT CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2425:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTITATCTTT AATTGCTTTT CGATTTCATT 60 CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 AAGCTTT 246 (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double	15	(A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425: ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT 60 CATGTCATCT TCTGAAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 30 AAGCTTTT 246 (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(a) Totobot: Timedi	
ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT 25 CATGTCATCT TCTGAAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT 120 ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 30 AAGCTTTT (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 53 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20		
25 CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 180 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 240 30 AAGCTTT (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 45 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425:	
ACGTCTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG 186 CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 246 30 AAGCTTTT (2) INFORMATION FOR SEQ ID NO: 2426: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC 45 (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT	60
CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA 246 (2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT	120
(2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG	180
(2) INFORMATION FOR SEQ ID NO: 2426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGANTTA AGTTAGACAA	240
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	AAGCTTTT	248
(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2426:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426: CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC (2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(2) INFORMATION FOR SEQ ID NO: 2427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC	53
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2427:	
50 (D) TOPOLOGY: linear		(A) LENGTH: 173 base pairs (B) TYPE: nucleic acid	
	50	(D) TOPOLOGY: linear	

55 _

2235

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2427:

	TATCCACTAA AATGATTTGC GCGTATTGTA ATATTAATCG TTCTACTTTT TATGATTATT	120
	ACAGGGAGCA ATTTGATTTA TTGGATACCA TCAACTChAA GCATAGGTGG AGG	173
5	(2) INFORMATION FOR SEQ ID NO: 2428:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	alegnasis receivada ser spinoskan per la sa casas.
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
*		ž 0 .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2428:	
	TACTTATGTT TATGTCGCAA TAATTAATGT TCGARTTAGT GGAATTGAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2429:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2429:	
	AGTCATCATA TTATCAATAA TACGCCGCGT TAAATCTGAT AAATTCATAT AGTCTGTATC	60
30 .	TAACTCTG	68
	(2) INFORMATION FOR SEQ ID NO: 2430:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2430:	
	TGAATTGAAA ACGGTCGGTG AAGCGCTAAA AGGTAGACGT GAAAGGTTAG GAATGACTTT	-, 60
45	AACAGAATTA GAGCAACGTA CTGGAATTAA ACGTGAAATG CTAGTGCATA TTGAAAATAA	120
	TGAATTCGAT CAACTACCGA ATAAAAATTA CAGCGAAGGA TTTATTAGAA AATATGCAAG	180
	CGTAGTAAAT ATTGAACCTA ACCAATTAAT TCAAGCTCAT CAAGATGAAA TTCCATCGAA	240
50	CCAAGCCGAA TGGGACGAAG TAATTACAGT TTTCNATAAT AATAAAGACT TAGATTATAA	300
	GAGTAAATCC AAAGAGCCAA TACHATTATT AGTAATCATG GGNATTACAG TTTTAATAAC	360

	(2) INFORMATION FOR SEQ ID NO: 2431:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2431:	
	TGACTTCGTC CAAGTACAAC TGCAGTCAGT ACCTACGAAA TCAAGATCAG CATGGAT	57
15	(2) INFORMATION FOR SEQ ID NO: 2432:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2432:	
25	ATTCTTAATC GCATCATAAT TAATTAACGG ACGCATAACA AATCCGATAA TACTATTATC	60
	TTTCCAAGTC ACTGACACTC CAAATTGATT TGCTTCnTCT ATCCATATTT GCTCAATAGT	120
30	ACCATCATTT TGAGTACACA CTTTTAATTC ATGTACATCA GACTGCCTTG TATAAGATTT	180
00	GAAAAGTTTC CTAAACTGCC AATAACTGNA CTCTCGCTTC AAATT	225
	(2) INFORMATION FOR SEQ ID NO: 2433:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2433:	
	CGGCCTGACG TTACATTTCT TCAACTTCAC GTCAAAATTG CTTCGCAATA ACCAGGA	57
45	(2) INFORMATION FOR SEQ ID NO: 2434:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTAAACGTGT CTTTAATGTG GAAGTTGAAA TATTAGTCCG TAAAAAAATG AAACTTAAAA	60
	AAAAATAATA TTTATATTTG TCGTACAAAG ATGAAAGCGA nAGA	104
5	(2) INFORMATION FOR SEQ ID NO: 2435:	٠.
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) lorologi. linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2435:	
	TTTGCTAATC GTTTCACGGA TTGTGGGGAT GGGTAAAGAC TTTGCTAGTG G	51
	(2) INFORMATION FOR SEQ ID NO: 2436:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2436:	
	AAANTTAATT TTTGGGGGGC CCTTTTTTAA CCGGAAAATC CAATCGGGGC TTTTAAGGAA	60
30	TGGTTTTGGT TAACAGGCTT TGGAATTTGG TTTGGCAAAA CAATCCTTGG TTTGGGGTTT	120
`	CGGTCCGGAG GGTCCTAATT	140
35	(2) INFORMATION FOR SEQ ID NO: 2437:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2437:	1,4
45		
45	GAAGCGGAAC CACCGTTGTT TTTCTTTTCA GGTCCAATTG AATAAATGTT ATGAATAGAA	
	TGGATAAAAA TATAATTATT TAAGTGTTAA AGTAAACCAA ATCATGATTT AAGATTATAA	
50	GAAAGAAAA TTGACTAATG TTAAAACCAA CAATCATATG GGTTGTAACG TTTATACAAT	180
	CATCGTAAAA CTCAATATGC TTAATTTATT CAAAATGTTC GTCAATAAGT ACAATGAAAA	240
	GGAGATTGAT TTTTGAATAA AAAATATCTT ATGATTGTAA TTATAATTTT AATATGATTC	300

	AAGATACGAT TTTGAGACCA TGTGAAGGGA TTAAATATAG	400
	(2) INFORMATION FOR SEQ ID NO: 2438:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	10, 200 200 200 1	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2438:	
15	TCTGTTTTGA AAGTTGCAGT TTGGACAGCA CCCGATGATT AGGTGAGTCT TTTGGTTTA	59
	(2) INFORMATION FOR SEQ ID NO: 2439:	
	(i) CROWNING GUADA GEORGE	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 50 base pairs	1
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	4).
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2439:	
	TTGGThAAAC CGTTACAGTT GCAAGTTTTG AAGTGAGTTA TTTTTTGGTT	50
	70°	
-	(2) INFORMATION FOR SEQ ID NO: 2440:	
<i>30</i>	Walter Commence	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	*
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2440:	
40 -	ATTAAAAATA AATTAAAnGT TCCAGAACCA GTTAACCAGA ATATTTACGA	50
	(2) INFORMATION FOR SEQ ID NO: 2441:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Torobout. Theat	
50		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2441:	
	TGCTGTTTTG GCGGTTTTTC TCCGTTTGGT TGAGTATGTG GTGTACCTTT TGTC	54

EP 0 786-519 A2-

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2442:	
	GTTGTTGGGT GTGTGGTTTT GGGTGTTGTG GGTTTGGGGT CTGGGTTCGT TGGTGG	.56
	(2) INFORMATION FOR SEQ ID NO: 2443:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
*	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2443:	
	GAGACAAACT AGTCGTCCAG AACGGAATTT AAGTAATCAT AATAATTACG GAAGTGCACT	60
25	TTTGTTTTG ATTTATCATT GATGGAAATT AGAACAATTT ATCGAATGAT ATTAAAATTA	120
	CATAACATCA TGTTGAATGT GAAATTAGGA TTGAACATTA CCTGTnTATT TGAAAAACCT	180
30	TCAGTTTTTA AATCACTAGT ATCACAAATA AAGCGACTTA AATTCGATTC GTTAATAATA	240
	GATAATGCAA ATTTANGTAG CCCT	264
	(2) INFORMATION FOR SEQ ID NO: 2444:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2444:	
	CCGTCTTTAG TACGTACGTT GTTTGCGGGG CTTGGGGTGC TTTCTGGGTG TTGGTCATTG	60
45	TATTGGG	6.7
	(2) INFORMATION FOR SEQ ID NO: 2445:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2445:

		,
	AGCTGCATTT CTCGTGCAGG CTATCAGCAT CGATATCTGT ACCATTTAGT GATCATGC	58
5	(2) INFORMATION FOR SEQ ID NO: 2446:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446:	
15	AACCAAAACA AACATTTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA	53
•	(2) INFORMATION FOR SEQ ID NO: 2447:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	3
25		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447:	
	CACAAATTAC ACCCATTGTT ANTACTAATA CTTNCCTnTT CATTTGTTTA	50
30	(2) INFORMATION FOR SEQ ID NO: 2448:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid	•
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448:	
	GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA	60
<i>r</i> .	ATGACACTTG AATCG	75
45	(2) INFORMATION FOR SEQ ID NO: 2449:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	•
. *		

	GCAGCCTTCA AGTGTTTGCT ATTTGCTTTG GTGTCACAAG CCATTATCTA CGGTCCCGCA	60
5	ATTTAGCCCG C	71
J	(2) INFORMATION FOR SEQ ID NO: 2450:	
	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 351 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:	
13	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:	
.•	TGGCGTGAGG AAAAATATCA TGTATTGTTA CACAGTCAAC AGTCTTACCA AATGATAAGG	60
	AATGCTTTAA AAACGGATTT ATCACTTCAT CAAGTTCAAC AAATGATTGA TGTTGCTTTG	
	ARISCITIAN MARCGONITI MICACITCAT CANSTICANC MANIGATIGA TGTTGCTTTG	120
20	TTAATTGAAC CGGGTATAGG AAGTGTATGT AATGCTTTTG ATCATATGTG GGGATATTTA	180
	AAAAAATCTC CCAATCAACA ACCAAACACA ACAATCAAAA CTAATCAAAA CTAATCAAAA	
	AAAAAATGTG CGAATGAAGA AGGAAAGACA ACAATCAAAA CTACTTAAAA GCTGATTTTA	240
. •	TTTAATGGNA AAAATCGACA CCCCAACTTT ATTAGATTTT TTAGCAGAAC TTGCCTAATA	300
25	AATATCCAMC TCAATAMMAA CTACAAACCA CMCMMMAAA ACCCCAAAAA	3-
,	AATATGGANG TCAATATTTA CTACAAAGCC GNGTTTTTAA ACCCCAAAAA G	351
,	(2) INFORMATION FOR SEQ ID NO: 2451:	
	(i) CROHENCE CUNDACTEDICATO	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
•		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2451:	
		•
	GTGTACCGCC TCGGCTGGCG TTCGCGGTGG GTGGTGCGGT CGGTGCGTGT CTGG	54
40	(2) INFORMATION FOR SEQ ID NO: 2452:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	• • • • • • • • • • • • • • • • • • • •
	(C) STRANDEDNESS: double	,
45	(D) TOPOLOGY: linear	
- 8		1
	(vi) SPONENCE DESCRIPTION, SPO. TO NO. 2452	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2452:	
50	TGCCATTCCA ATGTTACCAT CGTCTTGGTA CTACTATATA CTGCGGCTAT	50
	(2) INFORMATION FOR SEQ ID NO: 2453:	
	IN THE CHARLE OF FAIL PAR THAT TAIL TAIL.	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2453:	
10	AGACGTGTTT CCACGGTATG GGATAAATGA AGCACCGACT GATAAATCAA TATAGCCTCG	6
	TGTTTTTAGT TTACCCGAAC TATCCCTTGA TAATGATTGT GACATCTGCG GATAATATTT	12
	CATTITCTTA GATATCGTCG AAATATCACC GATTACTTGA AGTCCATCTG TCGTAAACAA	180
15	TTCAATTCTG CTTTGTTTGT TTTTACTTGG GGCGTATGTC ACTTCGGCAA TATATCGTCT	240
	AACTTCAGGT GTCATTTCAG ATAACGCCTT AATCATATCA TCTTCTTTTG TACCTTTGAA	300
	ACCATCCATG ACAGGTGCAT CATTAATTTT GACATCATTT GAACCTTTAA GCAATTTACC	360
20	ATTITCTAAT AAAGGTAAAT ATTTACCTTT ATATTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 2454:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2454:	
	AGAAAGAAAT ACCATTTGGA GATAGAGACT CGTGTTATTT CTTAGCGATG GGAGATTTTT	60
35	ATAATAAAGA AGATAGnAAG AAAATTATCA AAGGTTATGA AAATAATTAT GGTAGAGGTA	120
	TTAATATTCC TCGAGCACAT AGTATATATT TATATG	156
	(2) INFORMATION FOR SEQ ID NO: 2455:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2455:	
	ACTTAGGTGA TATGAAATGT GGTCCGCGAC GATCGTCAGT AACAAAATAA CAGGCAGTCA	60
50	TTGGATTATG TTTAACG	77
	(2) INFORMATION FOR SEQ ID NO: 2456:	

•	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(with appropriate programment, SEO ID NO. 2456.	.*.
· .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2456:	
10	AGTGAAATCG CTAAAGAAAA AGATGGAACC TCGGTATCTA ATACACAACT TCTTGAACGT	60
(.	TITTA	65
	(2) INFORMATION FOR SEQ ID NO: 2457:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid	
٠.	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	A A A STANDARD DESCRIPTION OF TO TO NO. 2457.	**
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2457:	
25	TATCAATAAT TGCCACTTGC AATGACTGAT TAATTTGAGG TGCACATAAG CCAG	54
	(2) INFORMATION FOR SEQ ID NO: 2458:	
	(i) SEQUENCE CHARACTERISTICS:	
<i>30</i>	(A) LENGTH: 166 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		. 8
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2458:	*
	AATTTATTT CGAGATTCTT CAATATAGAT GTTTCTTCAT TAATTTGATT CTCTAACTCT	. 60
40	TGCTTACTAC CTAATAGTTT ATCTAATTCA GCTTTAGCTT TTTCATTTTC TTTAATTATA	120
	TTAATTTCAT TATTTATGTT CGTnATCGTA TTATTTAGTT CGATAA	166
	(2) INFORMATION FOR SEQ ID NO: 2459:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. " •
50	(5) 10102001.	
55		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2459:	
	CCAATGATTA AGCAATACAA TCGTCACTAA AATTACACCG ATAATCTGAA TCATCGTCAT	60
55		

	(2) INFORMATION FOR SEQ ID NO: 2460:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2460:	
	AAATCAAAAA AATGTATAAT GAAAAGAAAA AGAAATTTGG AAAAAATTGG GAAGACGCTC	60
15	AAAAAGCTGG AAAAGCTGTA GGTGAAGATT TGAGTGTNAA TGG	103
	(2) INFORMATION FOR SEQ ID NO: 2461:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2461:	
	TTTATATCAG AATAGAATAG TAAACTAAGG CATTTGGAGA ACTTATTCCA TG	52
	(2) INFORMATION FOR SEQ ID NO: 2462:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2462:	
40	CAGCAGCGAA TTTTTGACGT CCAGTGTAGA ATGGATGTGA ATCAGATGAA ATATCTAAAC	60
	GAATAACTGG GTATTCTTTT CCATCTTCCC ACTCCATCAT TTCTGAAGAN GTT	113
	(2) INFORMATION FOR SEQ ID NO: 2463:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2463:	

	CTAACATAAT TGTTAACACT AAAATATTTA CTACTTTTAG AACTGTGCGA TTAAATACAA	120
	TTGTCAGTAT TGTTATGACT AGGCTAACGA TACATAAAAT AAAGAAACCG TTAAAGACTA	180
5	AAATTAAGCG ATCGATTCCT TGTTGTAAAT CATTGATATT ACCCAAATTA ATANTTAATT	240
	GGATGCATTT nCCAA	255
	(2) INFORMATION FOR SEQ ID NO: 2464:	e en
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, we
15		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2464:	
20	TATGCGACAA TTCGAAACAT TTTATATGCA AAAGGTTATA CAACAGAGAA TGTTGATT	58
	(2) INFORMATION FOR SEQ ID NO: 2465:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2465:	60
	TGAATTTCAT TACCACATAT CGGACATTGA TCTCCAATAT TTACAGCAGA TTTAATTTCA	65
35	CTTAT (2) INFORMATION FOR SEQ ID NO: 2466:	65
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2466:	
	CGTGACCTTC AAAGACCGAA CGAGAGAGTT GAAGAGCATT TGCGAAGGCC A	51
50	(2) INFORMATION FOR SEQ ID NO: 2467:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2467:	
	AGTTTGTTAA GTTTTAGTTT ACTAACTTTT CCATTAGATA TTATTAATGA AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2468:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2468:	
	TTGTTGGTAA GGCACTTCTT AAATATCAAC AACGCGATGA TATTTTCATT GGTACAAAAG	60
	TAGGCAATCG TTTAAC	76
20	(2) INFORMATION FOR SEQ ID NO: 2469:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2469:	
•	CTTCTATAAT AAAACCATCT GCAATTAAGT CTTCAATAGA CGATGGATTT CTATTATGTA	60
-	TCAATGCATA C	71
35	(2) INFORMATION FOR SEQ ID NO: 2470:	-
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2470:	÷
45	CTTCGTCATT GTATTCGAGC GCCTGTATAG CTTGCTCAAA TGATGCATAA AT	52
	(2) INFORMATION FOR SEQ ID NO: 2471:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2471:	į.
	AGAGGTTATG TTGATGTGCT TTATTTTCAT CAATGTCATT AACACAATCA TATTTCTTCT	60
5	GTTAATGCAC TGTATTATAT TCAAACGCGC TATCGACAAT TAATTTGn	108
	(2) INFORMATION FOR SEQ ID NO: 2472:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2472:	
		60
20		120
		180
		240
25		300
		360
*.		400
30	(2) INFORMATION FOR SEQ ID NO: 2473:	100
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:	
	CTTCAAATAC TAAATCAGCG TTGCTAAACA TACCGTATAC ATTTGATGGC GTTGATAACG	60
	CGTCCTGCGC TTCTGTTAAT AACTTTTCAG TTTCAGCATC TAANATATGA GGACGTTTTT	120
45	CATTAATCAA CTTCAAATCA AATGCGA	147
	(2) INFORMATION FOR SEQ ID NO: 2474:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:	
_	CTTTAGGTGC TTGTGGTAAT TCTAATTCAC AAGATCAAGG TAACAAAACT GAACAAAAAA	60
5	CA	62
٠	(2) INFORMATION FOR SEQ ID NO: 2475:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:	
	CCTTTAAAAT CATCTAGAAT ATCTCTTGAG AAAAATTCGA AATCTACAGT	50
20 .	(2) INFORMATION FOR SEQ ID NO: 2476:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476:	
	ATAGTGGTTA GTCAATGTAA TTAAATGAGA ATAGAATGGT GATTTCATCT TAGCTTGATA	60
	ATTAGCAGAA TCTTTAAAGA AAATTTTGTC TTnCAAGCCT AAGTTTACAA CGT	113
35	(2) INFORMATION FOR SEQ ID NO: 2477:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477:	
45	CGTAACTAAC TCAATTTACT GAAAAAATCG CTTGCGATGC AATAGCATTT G	51
	(2) INFORMATION FOR SEQ ID NO: 2478:	
50 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:	• •
	TAGTTGCCGC TACGTTTATA CTCGTATTAA TGAAAAAAAC TAGCAAAGAA TCTAAAAAAAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2479:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	4 11 22212122 222222222 222 22 22 22 22 2	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:	
	TCGGACATGA TGGTAAAACC GTATTGGGTA TTCGCACTGA CACCTTAAGG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2480:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	. •
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480: TTCCTAATTA AGGATTAAAA AGGGTTTCCT AATTAGATTA NAATTCCGGG ACCTGGATGG	60
30	AAAAAAGTTT TTAACTTTTC CATCTGGTCC CGTTTTTTGA TTTTCGATAT AAAAAAAGCG	120
	CAATTATCTC TAT	133
	(2) INFORMATION FOR SEQ ID NO: 2481:	**
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
40	(A) DENGIR: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:	
45	AAATGTTTTG GAAGAACGTA AGANAAATCA ATCTGAAACA AATGCACGAT ATGAAGAAGA	60
	ACAAGAAAAT TTAATGGAGC TTTTAGAAAA TATATCAAAT GAGATTTCTG AAGCTCAAGA	120
50	TACTTATAAG TCTCTGAAAA GTAAACAAAA AGAACTCAAT GCTGTCATTC GTGAACTTGA	180
50	AGAACAACTA TATGTTTCAG ACGAAGCACA TGATGAAAAA TTGGAAGAAA TTAAAAACGA	240

	TACTATAGAA GAGAATGAGG CTAAAAAATC CAGACAGGTT CTCGTTAGTT GGAGTTTTGA	360
	GCCATTGAAA GTATTChGGG GGCCAATTAA AACCGCCAAA	400
5	(2) INFORMATION FOR SEQ ID NO: 2482:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:	
	AAGGTGCATA GTCAACAACA TTTACAGCAT CATTTGATTC TGAACTAACC GAAACATTAT	60
	ACTTACCG	68
20	(2) INFORMATION FOR SEQ ID NO: 2483:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483: ATGAGCCNAC ACAGTGGTGA GGTAATCAAC GGTACAGTGG TTAGTGTGAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2484: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:	
	CGGAACTCGT CGAATAACTT TTTAGATTCT TCGTTAGCTT TTACATTAGC GAATGCTTCT	60
45	nTGATTGCTT TGTATTCTTC GCTTTCTCTT AAAGCTTGTT CTAATTGATT TGCATAATCA	120
	TATAAATTTA CTGCCATGGT TATAGCACTC CTTGGTnGTG ATGTTTATTA AAACGTTCGA	180
	TATTACTITA CCACATCTCG CTTTTTTAGA CAA	213
50	(2) INFORMATION FOR SEQ ID NO: 2485:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:	
	GACCAAAATT ATCTTTAGCA CTTATAGGTA TCTTTTTAAT ACTTTGTGAG TTTTTCTATG	60
10	GCATTCCTTT TTTAGGTGCA ACGTTTATTT TAAGTTTTGG ATGGCAGCCT TTACTCTTTA	120
· ·	ATGCATTACT TTATCTAATT CTTACTATTA TATTATTAGT GAATAGACAA AATGCGATTA	180
	GACCTATAGC GATTATTCCA ATATTTGGTA TAGTAGGTAG TTTTTTAGCT ATTATCCCCT	240
15	TCTTAGGAAT TTTGATTCAT TGGATTTTAT TTTTCCTAAT GATTCCANTT GTCCTAGTTG	300
	GATTATCAGC GCCAACCTAT ATACCCAATA AAAATGCTCG TGnCnTTTTA CACACAATAC	360
	AAAGATGGAC CTAGAG	376
20	(2) INFORMATION FOR SEQ ID NO: 2486:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2486:	
30	TTGACCTTGA CGGAAACTTT TTTCCAAGTT CTAAAAGTGG GCCAAAATCT T	51
	(2) INFORMATION FOR SEQ ID NO: 2487:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
*	(D) TOPOLOGI: IIHear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:	Ť
	GAATTTTGGC ATACACATAC ACTTTAAAAG ATATTATTGA AATTACAGGT GTAACTAAAA	60
45	GAACTITACA TTATTACGAT GAAATAGGAT TATTAGTTCC AGn	103
	(2) INFORMATION FOR SEQ ID NO: 2488:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488:	
	AATTACATTA GCACCAATCC ACACATCATT TTTAATTGTT GTACGGCTAG GTTGGTCATT	60
5	AAAGTCTATA AACGTTTnCT TTAAGTTAAA TGGATTATTA TTTAGA	106
	(2) INFORMATION FOR SEQ ID NO: 2489:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:	
	TGAATTTGCT TGAGTCGTGC TGCTGATAAC AATAAAATTG CACATGGATA AAGAATGACG	60
20	c	61
	(2) INFORMATION FOR SEQ ID NO: 2490:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• *
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:	
	GCTCGTATGA TACAAATTCA TAATCTGAAA CTTCTGTCGT TTGTCGAACA TGTGGTAACC	60
	AATTCTTCAA GATGCTGTAT ATTTCTGCGT AATTTTCGTC ATTCCTGAAT AACCTCAACT	120
<i>35</i>	TTAAAATGTC ACCTTGTTTG ATATAACGCA TTAAAAAATA TTGATCTATA TCTCCCTTAT	180
	CTTTAAGATG TTTTACAAAT GGATACAAAT TGTCGATGAT AAATGTATCT TGCGATGGCT	240
40	TATCGATATG AATATGTAAT GCAAACCAGT CTTTGTCATA TTCAATATCT GTATTTTAT	300
	ATTTTGGAAT TTCGATTTCG GGTCCTCGAT AAGATGATTT TTTATAAATT GGTGTAACAA	360
	TTTCATACAC ATGATCATTC TTTGATTGAG GGAAAAATGA	400
45	(2) INFORMATION FOR SEQ ID NO: 2491:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	,

	GACTGTTTTA TCGCAACTAT TTACACCTAT ATTATCGTTA GTAGGACATC TCGTCGG	5/
	(2) INFORMATION FOR SEQ ID NO: 2492:	:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		٠.
	en de grande de la companya de la c En la companya de la	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:	
15	CATTGAACTT GCTTTTGACG TACACCAGTA ATCAATGCCA TAATACGATC CGG	53
*	(2) INFORMATION FOR SEQ ID NO: 2493:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	9.
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		*
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493:	
٠.	AATACAACTA ACATACACTT ACCCATGTCC GAAGTCChTG TTGAGGAATG	50
	(2) INFORMATION FOR SEQ ID NO: 2494:	·
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	
0	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	\(\frac{1}{2}\)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:	
.40	GCTGTTTAGC TTGCTCAAAT GATGCATAAA TATCTGATGC AACTATCATA TCAGCTAGTT	60
	CATCA	65
	(2) INFORMATION FOR SEQ ID NO: 2495:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(0) 101 02001.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:	

	ATTAAGCTTT CTAAATCATT GATGTTAGGA GCTAATGTGC TCGATAAGCA GAGTAAAGAA	120
	GAATTGCTTA AACAAGCTAA ACATATAACA GGTTTAGAAA ATCCTAATAG TCCTACACAG	180
5	TTATNGGCTT GGTTAAAGGA TGAACAAGGA TTAGATATAC CTAATTTACA AAAGAAAACG	240
	GTTCAGGAGT ACTTAAAAGA AGCAACAGGA AAAGCTAnAA AAATGCTAGA AATTAGATnG	. 300
10	CAAATGTCTA AAACCAGTGT GA	322
	(2) INFORMATION FOR SEQ ID NO: 2496:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:	-
	ATCAGTGTTA ATTCGCACGG AATTTCCTTC CATTAAACTA ATCCGATCAT ATAATGGAT	59
06	(2) INFORMATION FOR SEQ ID NO: 2497:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:	* *
35	CTAATTAAGC CAAAAGGGGA AGGGTCCACC AACCCTTGGT TTCCCCCCAT TGCCCGGAAA	60
	CCACCAGDAA GTTTAAAGCT TCCCTTTAAG CCGTCCGATG GGTAGTCCGA ACTTTACCGT	120
	TCCCGC	126
40	(2) INFORMATION FOR SEQ ID NO: 2498:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:	
50	CACTTTGCGC CAGTTTTCAG TTGAGTGGCA TAGAGTCTGC TCATCAGTTC CTTGCTCC	58
	(2) INFORMATION FOR SEQ ID NO: 2499:	

5	(A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	3
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:	
10	TCATGATGCA GACGCAACAG CATTTGGTTA TGAATATGGA CAAATACCAC AGATGCCGGT	60
	AGCATTTCAA TCAAGTAAAC CTTTAATAGA	90
	(2) INFORMATION FOR SEQ ID NO: 2500:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:	
25	TGCTCAAAGT CGTGTAGACA GCCAACTAAT GCATTTTCAA GATCAGTGAC ATCTCCGACA	60
	CCAAAGAAAT CACCGAATAT TTTTGCATGT TCGATTTTAC CTCGTTTAAC ATCAAACTTA	120
	ATTTGTACAA ATCCTTTTTC AAATTTTTCC TCGCGTTCAA AGTTATATTT AGGGTTTCTA	180
30	CCATAATTCC ATTCCCAAGT TCTATATTTG TCGTTACTTA ACTTTTCAAT ATTnTCCCAA	240
	TCTTCATCCG TTAATTGATA TTCTTCnACT TCAGTTTCGC CAAAGATAGT TT	292
35	(2) INFORMATION FOR SEQ ID NO: 2501:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:	
45	GGTGTGTGTA GAGGTCGAGA GTTGGGGGGG GAGTAACGTG GAAGTTGCCC GGACAGCA	58
·	(2) INFORMATION FOR SEQ ID NO: 2502:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(2) INFORMATION FOR SEQ ID NO: 2503: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503: ATCCCCACTC TTITTTAAAT GATTTAACCA TATTTTATTT TTAAAATAAA TATCCATCAA AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT 120 CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAA ACCATTCAAA TTCATGAATG 180 GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAAAT ATTGTTGCTC 240 TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC 300 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 (2) INFORMATION FOR SEQ ID NO: 2504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATT ATGAACTAT TTTAGGTGGA GCCGTGATTA CCGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGGTGGA GCCGTGATTA CCGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTAACT TATGGATTA TAGGATCAAG AATTAGAGCG AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TACTGGGTA ATTTGATTTC 240 TGATATTAACT TATGGATTTA TAGGATCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AACTAGTGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAAATT GCATTTTCTA AATTAATCA TANTA 355 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (C) STRANDEDNESS: double		ATACGGGAGG TATCAGCACG TACGTGCAGT CGGTAATGGA TCNAAATACG	50
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503: ATCCCCACTC TITITAAAT GATTTAACCA TATTTATTT TTAAAATAAA TATCCATCAA AGGITATCAA TAAATTTATC ACATGICAGA AAGTATGCTT CATCTGAATA CACCAATACT 120 CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAAA ACCATTCAAA TCCATGAATG 20 GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC 240 TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC 300 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATT ATAATAAACA TATATTGAGA AATTCCTATA TACCTATTAT 60 ATTAATCTATG AATAACATT TTTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGGATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 46 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 2503:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503: ATCCCCACTC TITITAAAT GATTTAACCA TATTTATTT TTAAAATAAA TATCCATCAA 60 AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT 120 CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAAA ACCATTCAAA TTCATGAATG 180 GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC 240 TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAG CCTACAAAAA TACCGCCACC 300 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA 400 (2) INFORMATION FOR SEQ ID NO: 2504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TANTA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
ATCCCCACTC TTTTTAAAT GATTTAACCA TATTTTATTT	10	(D) TOPOLOGY: linear	
ATCCCCACTC TTTTTAAAT GATTTAACCA TATTTTATTT			
AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAN ACCATTCAAA TTCATGAATG GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC 240 TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 25 ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (3) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 46 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT TACCTGATTAT 355 (2) INFORMATION FOR SEQ ID NO: 2505: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:	
CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAA ACCATTCAAA TTCATGAATG GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC 240 TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC 300 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT TACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTNAAAATT GCATTTTCTA AATTNATTCA TANTA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	15	ATCCCCACTC TTTTTTAAAT GATTTAACCA TATTTTATTT	60
GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC 300 GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC 360 ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 45 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TANTA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT	120
TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT (0) TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGATCG GTAATAGGCC AAGACTATC 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT TACTGGGGG GATTAGAATG 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAN ACCATTCAAA TTCATGAATG	180
GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (4) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acidd (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT (A) TACATTTTA GGTGCTGATA TTGTAAGTAT TITAGGTGGA GCCGTGATTA CGGAGACTAT (C) TACATTTTA AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC (B) ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC (C) TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG (C) INFORMATION FOR SEQ ID NO: 2505: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	20	GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC	240
ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA (2) INFORMATION FOR SEQ ID NO: 2504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT (A) TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT (C) CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC (B) ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC (C) TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG (C) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC	300
(2) INFORMATION FOR SEQ ID NO: 2504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT (A) TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT (CTTTCCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC (A) ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTCC (CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AACTAGGGGG GATTAGAATG (CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA (C) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC	360
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT (A) TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT (C) CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC (A) ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC (A) TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG (C) INFORMATION FOR SEQ ID NO: 2505: (I) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	25	ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA	400
(A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 45 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTNAAAATT GCATTTTCTA AATTNATTCA TANTA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 2504:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	30	(A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504: ATTATCTATG AATAAAATT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT 60 TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT 120 CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG 300 CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	35		
TACATTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC 180 ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 240 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA 355 (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:	
CTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 45 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG CAAAATAAGT CAAAATCGCC TTTAAAAATT GCATTTTCTA AATTAATTCA TAATA (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT	60
ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC 45 TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG CAAAATAAGT CAAAATCGCC TTTMAAAATT GCATTTTCTA AATTMATTCA TAMTA (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	40	TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT	120
TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG CAAAATAAGT CAAAATCGCC TTTnAAAAATT GCATTTTCTA AATTNATTCA TANTA (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC	180
CAAAATAAGT CAAAATCGCC TTTmAAAATT GCATTTTCTA AATTMATTCA TAMTA (2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC	240
(2) INFORMATION FOR SEQ ID NO: 2505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid	45	TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG	300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		CAAAATAAGT CAAAATCGCC TTTnAAAATT GCATTTTCTA AATTNATTCA TANTA	355
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid		(2) INFORMATION FOR SEQ ID NO: 2505:	
	50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 254 base pairs(B) TYPE: nucleic acid	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:	
	CCGTTAGTTC CATACCATAT TTTTTCTAT AAAATAATTT AACATCTAAT TGCCTTTCTA	60
5	ATTTTCAAT AGGGGTAGAT ACAGTTGACT GTGAATAGTT AAGTAACTCT GATGCTTTAG	120
	TAAGGTTCTT TGTTTCACTA GTTACTAAAA ATGATTTTAA AATGTTTAAG TTCAAAGTAG	180
10	TACCTCCTTT AGGGTTCCCT TTTATCGAAT CCTGAATTCT AAGAATTCTG ATTTAATAAT	240
10	AATATAInAn ATAT	254
	(2) INFORMATION FOR SEQ ID NO: 2506:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:	
	AACTCCACCG TGTAGTTGCG CTTCATCGCC TTGAGGATGC GATTGGCGCC GTGCTGCGCG	60
25	GCACGTGCAG ATAGTGCGAG CACTTGGGCA GATCGCGCAC CGCCTCCAGC AGGTCGTCGG	120
	TCATATCCTT GGGATAGTTC GTTACGANTT GGATCCGGTC GATGCCGTCG ACATCCGAGA	180
	TGCGGCACAG CAGGTCGGAC AGTCGCGTTG nCCGCTGGCA GTGTCGTAGT GGTAATGTTT	240
30	CACGGTTTTG ACCTAGCAGC GTTCACCT	268
	(2) INFORMATION FOR SEQ ID NO: 2507:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:	
	AAAAGTGGCT AATATCATCA GCAGAATGTA TAACATAATC GAATTGCAAC CAGCGATTAT	60
45	ACCTTT	66
	(2) INFORMATION FOR SEQ ID NO: 2508:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:	
	ACCTCCGCTT CAAATGTCAT TGATAGACAT TTAAAGCGGA GGCATGTACA TGT	53
5	(2) INFORMATION FOR SEQ ID NO: 2509:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:	
	ACCCTATGAN AGATGAAGTN ATTAACCAAA AACCACGTGT TGTAATATTA	50
	(2) INFORMATION FOR SEQ ID NO: 2510:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
25		
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:	
	TTAACCTATT ATATTAATTT TAGTATCAAT TCTTTCTCCA GTTCCTGCGT CATTTTT	57
30	(2) INFORMATION FOR SEQ ID NO: 2511:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:	
40	ACGTGTTCAT AACCCATAAA GGCGAATATG GTAACACCGA ACATCATGAC A	- 51
	(2) INFORMATION FOR SEQ ID NO: 2512:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

	GTANAGCGGT CCGCGCTTAA AGCGCTTGCT AACTTCGAAC AATGAATCTG CGGAACATCT	60
	TGCGAATCCA CGAGATGATC TCATATGACG GGCAGCGAGG T	101
5	(2) INFORMATION FOR SEQ ID NO: 2513:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:	
	GGGTAATGTA ATAGTATTCA TCTACATCAT CTTGATCATC GTAATGCTGA TTGTACCCTT	60
	CTAAATC	67
20	(2) INFORMATION FOR SEQ ID NO: 2514:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514:	,
30	CCCGTCGTTT TCGTGnTTTT CGCGGCGTGT CTCCTGTTCG CGCCTCTACT	50
	(2) INFORMATION FOR SEQ ID NO: 2515:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:	
	AAGAAATAT CTCTTGAATA CTGATCGATT GCCATCGAAA AACACTGTTA AATCAAGTTG	60
45	CCCAGTCCAT TGTTGTTCAT CCATTATGAT AATCCTTTGA GTAAAGTGTC GCGTTCAATC	120
	CAATCGATAA CTTCATCCAA ACCTTCGTCG GTTTTTAAGT TAGTAAAAGT AAATGGACGT	180
	TTACCACGAA ATACTTTAGT ATCTTCAGCC ATTTGTTCTA ATGATGCACC TACATANGGA	240
50	GCTAAATCAG TnTTGTTAAT TACAAAGACA ATCTG	275
	(2) INFORMATION FOR SEQ ID NO: 2516:	

(A) LENGTH: 59 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:	
10	CTGCACCACC AATAACGTAA ATACTGTATA TACTAGTAAT CGCTAATACA CCGATATTA	59
	(2) INFORMATION FOR SEQ ID NO: 2517:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:	
	TCTGCTACTA CGTATACGAT AGAATGGATT TCTTTTTGAA CCTAAACGTG TTAAACGAAT	60
	TTTAACTGCC ATTTATAAAA TCTCCTTTAA GTCATGTTTT AATTTTATT TTCTACAng	119
25	(2) INFORMATION FOR SEQ ID NO: 2518:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* .
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:	
	ATTTCCTTTT AAGTTTTTAA AAATCCAAAA TCCTTGTGGT AGGGCCATGA AAGGGTTGGG	60
	(2) INFORMATION FOR SEQ ID NO: 2519:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:	
	ATAGAAGTGA AGCACGTAGA TTGAAACGAT GGTTAAATAA CGAGAGACAT TTAGAAAACA	60
50	ATAAAAATGA GGAATAATCA ATGATACATG GAATTGGTGT AGATTTAATC GAAATCGATC	120
	GAATACAAGC GTTATATAGT AAGCAACCAA AATTGGTTGA GCGGATTTTA ACTAAAAATG	180

	GGTTTGCTAC AAAAGAAGCG TCAGTAAAGC ATTAGGCCCC GGCCTnnGGA AACA	294
	(2) INFORMATION FOR SEQ ID NO: 2520:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:	
	TTTTAGGCCG AAGANGTAGT AATTTCCGGT CCTTTAAGGG GCGGGTGGTT AACCATGGCA	60
15	ATTAATCCCA GGGATGACCT TACCTAATAA CCACCTAATA ATTACCCGGA CCAAAGGTGG	120
		145
•	AAATAATCCC TCCGGTCCTT CCCGG	143
20	(2) INFORMATION FOR SEQ ID NO: 2521:	,
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:	•
30	TTTTAGTCAC CAAAATTCTC GCATTTAACT GATACGAATG TGCAATAACT AAAAATCGAT	60
	CTAATAATTG CGTTGAAAAA TTTGGCTCGA CAGCACTCAT TACAATTACN AGTGTATCTA	120
35	TATTACTTAC AGGTGGTCTT TTCAACTCAT TTTCCCGCTC AAACACTTG	169
-	(2) INFORMATION FOR SEQ ID NO: 2522:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	
	ATTENDED TO THE PROPERTY OF A	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:	
•	ATCCAGCCTT TCAACAAATA AATCTGAAAT TCGATGTTCT AAAATTTCTG CTTCTTGATG	60
	TACTTCTTCC CAATTATATT TCAATATT	88
50	(2) INFORMATION FOR SEQ ID NO: 2523:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs	
	/*** ——**** ——*** — ***	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2523:	
		٠,
	CAGTAACATC AATCTGTCCT GTAAGCTTGT GGTACTCCGA TACAACCATA AGTCAACGCA	60
10	CCACCAAAAA CGCCTTGGAG CCGTTCTACT TATTAGTCCA AGTTTAGACA TTGAAATACC	120
	AACAACTTTG CANTCCATAG TATCTGAAAA TGTAGACATT GCCTGCAATA AATTTAACNC	180
	ATCATTTTA TTATGTGGCA TTACTGCTAA TTTAACGTAT TCTGGGTT	228
15	(2) INFORMATION FOR SEQ ID NO: 2524:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:	
25	CTCATCCATA GCGCTGGTAT TAGTATAGGT GTCAAACCAT TAGCGTATAT CATATCTTCT	60
	GGATGINCTC ACATATICAT AGATGCACAT TITACITCTC TCGTACCITA GTACTGGGA	119
	(2) INFORMATION FOR SEQ ID NO: 2525:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriate programmer and the No. 2525.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:	
40	TACCAATATT AAATTTGAAC ATTATAGTTT GACCATCATA ATCTATCTTC TCTATTTCAT	60
	TATAACTAAT ACTTCTATAA TAAAATTGGC CATTCATATC TACATTCATA ATTAATCTTT	120
	CATTTGTTGC TATAAATGCC CCTTCAAATT CATTCTCACC TTGAACTTGA TACTCAATTA	180
45	TTCCTAGCAC TGACGGACCC TTTTTTTCAG TTGGAAATAA ATCATTTGGA TTCACATTAT	240
	CTARARTCAT ARTATCCCTC CCACTTARAR CTATARACTA TTCTTCATAG GTATATGARA	300
	TACAAGTGAT TAACTATTNA TNATNAAGCT TAACTTGTAT TCCCTTTTCA AGATAAT	357
50	(2) INFORMATION FOR SEQ ID NO: 2526:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:	
	CACGCGTCCG GCCACCTGGA CATGGCCGAC CTAGAAGCCA AGCTGCANGA GGCCCAGAAG	60
10 -	CATCGGCTGC GCCTGGGTGG CCACTGATGG GGCCTTTTCC ATGGATGGCG ACATCGCACC	120
	CCTGCAGGAG ATCTGCTGCC TCGCCTCTAG ATATGGTGCC CTGGTCTTCA TGGATGAATG	180
	CCATGCCACT GGCTTCCTGG GGCCCACAGN ACGGGGCACA GATGAGCTGC TGGGTGTGAT	240
15	GGACCAGGTC ACCATCATCA A	261
	(2) INFORMATION FOR SEQ ID NO: 2527:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:	
	CTNTAGAGGA TATGAGTTCC TCATCATAAG AATTTCTGGA TCCTTAATAG ATCTCTTGCT	60
30	ATATATAATG TAATAGAAAC ATCTTTTAAG GATCCAGAAA TTCTTAGA	108
	(2) INFORMATION FOR SEQ ID NO: 2528:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:	
	TTTTAAAATA CTTGGTAGAA GTTGGAATGG ATTAATCATT AATTATCTCT CAAGATGTAA	60
45	TGACTGTTCA GCACACTTTT CCGATATGAA AAGAGATTTG AANACAATA	109
	(2) INFORMATION FOR SEQ ID NO: 2529:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GATTAAATTT GTTATACCTG GCTTGTTGTC ACGATCAAAT TTAATAATAC CATCTGAATC	60
	AGTTACTGCG CTTTTAATTT TTTTAGCTGC AACATTCGGC TCGTCTAATA ATGAAATnGA	120
5	GTTTTTAGCA TTATCATCAC TCTTACTCAT	150
	(2) INFORMATION FOR SEQ ID NO: 2530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:	
	TTCTTTTGG CCAGTGGCAG GAAGTACGGT CTTATTTGGT GTTATGTTAA GAAGGTATTC	60
20	CCATTTATTT ATCGTTAAAT ATGNATATAG TATAGTAATT TTAATTTGTT GCATCATAAT	120
	ACTAGGT	127
	(2) INFORMATION FOR SEQ ID NO: 2531:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:	
35	CACATAATGA TTCGAATTAT TGTTTTAATT AAACCTTTTT CACATATGTA TAAATTTTAn	60
	AGAGCGCATG CGTGAATATT TTCATTTGAT TCAAAGGCAA AAGATAGCCT TATACTCTTT	120
	ŤC	122
40	(2) INFORMATION FOR SEQ ID NO: 2532:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:	
50	AAATAATAGA GCAATTGGCA CATGTAAGAA TGCAAATTGA CTATGGCATC CAGTATTTTG	60
	GTCACAAATG GGTTGTATAT GAGCATGTTG AAAAATAAGT CTTATGNTAA ACACTTAGTA	 120

(2) INFORMATION FOR SEQ ID NO: 2533:

5	(A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
ener e consinue	(b) Topologi: Tinear	The property of the same and th	en ern 1 gant skinske for der skinske oppsychet og trenske til er en en en en	er og sekretarjenski sommer om
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25	533:		
*	GAGAGCGGCC GCGTGTAAGG AGAGCGGCGT TCGTTCGCGT C	GACGCGAGTG	TGGTTCGCGA	60
15	GAAGNGGACC AGAGTTCCCG ATCGAGGCTG TTCGGGTAAA	Ţ		101
	(2) INFORMATION FOR SEQ ID NO: 2534:			
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	÷ .		* * *
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear			
		• **		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25	534:		
	TTGCTCATTA AAGATTATCC CAATCAATAT CATCTATATT	IGTTGTACCA	CTATTATCTT	60
	TTTCTCTTTC TCTTACTTTG TnCATTGTAC CAGTAGATTC	AAGATATATT	GT	112
30	(2) INFORMATION FOR SEQ ID NO: 2535:			
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		*	
	(D) TOPOLOGY: linear	٠	=00	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25	535:	. *	
	ATAACGAATC CAAAAATATA GAGAATGACA GTGAAACTTA A	AATAGGACTC	r	51
	(2) INFORMATION FOR SEQ ID NO: 2536:			
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	- 1 m		- 141
50				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25	536:		

(2) INFORMATION FOR SEQ ID NO: 2537:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:	
	GGATGTACCA CCAGCATAAT AAACAACTTC AAATGGATTG ATAAAGAAGA NACCAGCAGA	60
15	GATAGGTAAT TCATTACCAT GTTCTTCTTG TAGACGTTTA CCTTCTTCAA TCTTTTGCTC	120
	ATTTGCATCA AGTTGTTGTT GTAAGTTATC TCGCTTGT	158
	(2) INFORMATION FOR SEQ ID NO: 2538:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	*	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:	
	TATATTCATT AAATCCACAA AGCGGTCCCG TATAAACATG GGTTTCCATT	50
30	(2) INFORMATION FOR SEQ ID NO: 2539:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:	
	AAAGTATACA TATCACTCAA CTAATCAATA ATCATACTTA CCTTCAACAA ATTCTTTAAC	60
	ATGCAGTGTT ATCCCTTGAT AATATGGATA TTTDGTTAAT CTA	103
45	(2) INFORMATION FOR SEQ ID NO: 2540:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CAATCAATTT GTCTATCTGT TGAGTGGCAA CCTCTAATAA	GCCTTTTATA	TTGTCA	- 56
* * -	(2) INFORMATION FOR SEQ ID NO: 2541:			
5 -	(i) SEQUENCE CHARACTERISTICS:	_ •		
	(A) LENGTH: 126 base pairs			
	(B) TYPE: nucleic acid	•		
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear			
10		•	*	
	· '	•		
-		0.0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2541:		
15	TGGAAATAAC GAAAGTATTA TTAATTTAAA GCATCTTTCT	CCCAATACTT	TAATGAGTGA	60
	TATTGTTTAT ATACCGTATA AAACACCTAT TTTnGAGGAA	GCAGAGCGCA	AGGGAAACCA	120
	TATTTA	:		126
		•		*
20	(2) INFORMATION FOR SEQ ID NO: 2542:			
20				
	(i) SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 201 base pairs			
*	(B) TYPE: nucleic acid	•		
	(C) STRANDEDNESS: double	•		
25	(D) TOPOLOGY: linear			
	(b) Topologi. Timear			
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2542:		
	(XI) OBGODINGS DESCRIPTION OF AN ANA			
30	ATCAGTTTCT TCAAAAATAA CTGAAGTATC TGATGCTGAA	AATTGGAATA	GTTGATGGGT	. 60
	CGGGnTATTG ATTTTTATCT GATGTAAAAA TCCATAAGTG	CCATAAGATG	TATATAGTTT	120
	CTTCATATGA AAGGTCCCCC TTATGTnTTT ATTTATATA	CGATGATAAA	CTAGTCATTA	180
35	CIICAIAIOA ALOOTOOO III.			*
	CCACTATTAA TAATTGATTA A			201
	COCINIIAN INIIIONIII. I.			7.13
	(2) INFORMATION FOR SEQ ID NO: 2543:			
	(2) INFORMATION FOR DEG 15 NO. 2515.	•		
	(i) SEQUENCE CHARACTERISTICS:			
40	(A) LENGTH: 65 base pairs	-	•	
	(B) TYPE: nucleic acid		•	
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear			
4	(D) TOPOLOGI: linear	. •	•	
15			:	
40		4.0. +		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2743:		
		03.03.00.0003.3	> magaaaa	
	GAACTTTATT ACAGGAATAG ATAAGCACAG TCGTGTTACA	CAGACGCTAA	ATGCGCGTTC	60
50				-
•	GTATG		•	. 65
	· ·			
•	(2) INFORMATION FOR SEQ ID NO: 2544:			

5	(A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:	
10	AGCTATTAAT GGCGCTATAA TTGATACAAT AGTTATGATT AATAAAAAA TAACCGATAA	60
	CATTGCAATT TTATHATGAA TAAATTTAGG AAATGCAATT TT	102
	(2) INFORMATION FOR SEQ ID NO: 2545:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:	
25	AATCTACATC CAGCATGATC NACATCANAG CNGGATTCAC CCTTACTTCA	50
	(2) INFORMATION FOR SEQ ID NO: 2546:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	121
•		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:	
	AACCATTCAA CACACGACAC TAAAGTGCAG TACAATCCTA CAAAACGATT GTTTTTATCG	60
	GGTGGTCTAA CCATTGAATA AATAATGAAT AATGGTAANA	100
40	(2) INFORMATION FOR SEQ ID NO: 2547:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	9
	(wi) apouring pregnington, spo in No. 2547	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:	
	ATTGAAAATC TTTTATCATT TCATACGTGT GCATAATTAA AAAGGTGAAA CCTCTTATTT	60
	TGAGATTTCA CCTTTTTTAT TGTTAATTTA AATTTAATTT	120
55		

(2) INFORMATION FOR SEQ ID NO: 2548:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:	
		60
15	TGTCTTATAT CTTTTATTAT TATGGCGTTA CCAATNATTT GGTACACAGC TTCAGCATTA	120
	TGGTTCTTCC CAGGTGCAAT CA	142
	(2) INFORMATION FOR SEQ ID NO: 2549:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	-
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:	
	CCCAACCCTA Chaacgacat Tacacaatca Gtaacagatc GGTATTAAGA CTGGATATCG	60
30	TGGCATCTGT TGAGTTAATA TCAACAGTCG TCCAGAACTC G	101
	(2) INFORMATION FOR SEQ ID NO: 2550:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:	
•	TGTAACCATG ATTTAGATGA CTAAACGTGC TTGCCAACAT GCTTCATCCA ATGCCGAATC	60
45	CTTTAGCTAC AT	72
*	(2) INFORMATION FOR SEQ ID NO: 2551:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:	
	CAGTAAGAGG ACAAGGCTAT AAGGTGGAGA ATCATGTTTA AAACACTCTA TGCTAGAATT	60
5	GCGATTTATT CCATTACGGT TATTTTATTT AGTGCATTAA TAAGTTTTGT ATTAACAAAT	120
	GTTTACTATC ATTATAATTT AAAAGCATCT AATGACGCGA AAATCATGAA GACGCTTAAA	180
	GAAGCAAGAC AATATGAACA ATCAGCTAAA CCAACGCACA TTCAACAATA TTTCCAHACA	240
10	TTTAGGGTCA AATGGAATTA CCAAATAATG ACCATGGATC CATAAAGGTC nTnAGACCTT	300
	TTT	303
15	(2) INFORMATION FOR SEQ ID NO: 2552:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 150 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:	
25	TTTACTTTAG CCTTTATTGC ATTTGTAATT TATAGAACTG CGAACAGGTG ACTACTGTHA	60
•	ATTTATGTGA TTAAAGTTTC AATGATATTT GATTTATTAG ACCATTGCAA AAGCGCAAGG	120
	TTCTCATGTG CTGCTACAGT TTGCGGTCTT	150
30	(2) INFORMATION FOR SEQ ID NO: 2553:	-
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	•
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553:	
	GCACTCGTCA ATAAAGATGA AGCAGCATTT AATCAATATA CGGCAGAATA CAAAAATT	58
	(2) INFORMATION FOR SEQ ID NO: 2554:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:	

	AAAATCGTTG AATAATCAAT CATAGCAGTA AGCTATGTDA TATATTTTTA AAAATTGA	118
•	(2) INFORMATION FOR SEQ ID NO: 2555:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
magazing a souther to be on	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:	v= 1 • 1
15	ACAACTTCAA AGAAATCATG TCACAAAAAA AGTATTTGAT TTTAATCATA nGTGGCGACA	60
15	ATCCGCATAC CAAAGCACAA CCTTTAGTCA ACCAATTCAG AT	102
	(2) INFORMATION FOR SEQ ID NO: 2556:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:	
	AGATGCATTA GCAGCATTAG ACGTTAAACC AGTTGGTATT GCTGATGATG GTAAGAAAAA	. 60
30	ACGTATCATT AAACCAGTTA GAGAAAAAAT TGGGGATTAT ACTTCTGTAG GTACACGTAA	120
	ACAGCCAAAC TTAGAAGAAA TTAGTAAATT AAAACCGGAT TTAATTATCG CTGATAGCAG	180
25	TAGACATANA GGTATTAATA AAGAATTAAN CAAAATTGCA CCAACATTAT CATTAAAGAG	240
<i>35</i>	TT	242
	(2) INFORMATION FOR SEQ ID NO: 2557:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 248 base pairs(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:	
	TGCACTCATA ATCATCGGAA TATGTATAGA ATCAACTATC ACTTTGCCGT GTTTATCTGT	60
50	GTTAAATGTG TAACCATAAC AGTGTGTCCC ATTTGGATTA TGAATCTCAG AATAATCATC	120
	AAAAATATCC TGAATTTnCA AATTAATTTC ATTATAGCGG NAGCAATGTC TATAAAATTT	180

2272 . .

	TATTTCAA	248
	(2) INFORMATION FOR SEQ ID NO: 2558:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:	
	TTTGGGTCGT GATTGAAAAA ATCTAAGGCT AATAAACCAT GTTGTTCTGC GCTTAATAAT	60
15	TGTTTGAGTA TACGGTTAAT AATTAACTCT GTATCATGAG GGTTGACGCG AAAGTCAGAG	120
	CGCATATAAG TCATATAATT CTCGAAGATT TCTCTATCAG TATTGCTTAA TCTTAATGAT	180
20	TTAACATTAT TTTCTTTGT TAATTGCGCA GTACTTTCA TTGTTACTTA AGCGCTCCTT	24,0
	TAAAAATGTT TAATTCCAAA TTAAAATGGA AATGATTTTA TAGTATTAAT AAGGTCAATC	300
	ATATCATATT AAACGCATAA ATATAACGAT TAATATTGGA GAGGAAAATG AGGACACTTA	360
25	ATAAAGATGA ACATAATTAT ATCAAGCAAA TAGCTAATAT	400
	(2) INFORMATION FOR SEQ ID NO: 2559:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:	
	AAGGGAAATT TAAAAGTATC ATTTGATTAT ATAGATTGGA TTAAATTAGG TTTTGGCCCA	60
40	TCAGGAAAGG AAAACTACTA TATGTACAAA AAATTTGGTA TTTTACCAGA TATGGAATAT	120
40	GAAATGGAAG AAATTCGAGC AGTAGAGAAG TATGTTAAAG AGCAAGAGTA GCAGACATGT	180
	TATAAAAGAC TGTGCAAAAT CACCCTCGTT TTACATTTGA TTCAAAGAAG AAGGTAAAAG	240
45	ATAAGAnTAT TTGCAACTTA AAAAGTCAAT nAGCTTATCG GTATCCATAC ATCATGGATA	300
	AATGAGTHCA ACTAATTAAC AAATCACGAT ATA	333
	(2) INFORMATION FOR SEQ ID NO: 2560:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:	
	GTAAGACATT CACATTTATC ATTTCACCAC AATGGGTTTA CCAACCATGG TTTAACGAAT	60
. 5 .	CCAAAACTTT GATGCTCGTA TGTCTCA	87
	(2) INFORMATION FOR SEQ ID NO: 2561:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
٠		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:	
	TTGCATTTTG ACGTAAATGA TTAAACAAAT CGTGATTATC TCTTAATTTT CTAACCGCCT	60
20	TTTCAATTTC TAACGGCGTA ACTTCCTTTA GAACAATGCC AAATTTATAT TTnTCAT	117
	(2) INFORMATION FOR SEQ ID NO: 2562:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
23	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:	
	AAGTCAAACA AAATAAGCAA ACAGACTGGT CAGAAGATAA GTTGAATAAT ATAGCTTTGA	60
35	(2) INFORMATION FOR SEQ ID NO: 2563:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 80 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:	,
45	AAGTGTTATT ATTGTGATCA TAAAGTGAAG TATTACCTTT TTTATTCGTA ACCCGATTCC	60
	ATGCGCCTTC AACATAAACT	80
	(2) INFORMATION FOR SEQ ID NO: 2564:	
50	(i) SEQUENCE CHARACTERISTICS:	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:	
	AGACATGGGC TTATCAGATA AAGTAAAAGC ATTACCTAAA GGGGGAGGCG GTAAGTCATT	6
10	ACCG	64
	(2) INFORMATION FOR SEQ ID NO: 2565:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2565:	
	GTTTGTTTAT AGTACCCTGG ATTTTCTTTA TTTCCATCAT GTGAAACTGT GTCAGTGAAC	60
	GCTGAT	66
25	(2) INFORMATION FOR SEQ ID NO: 2566:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2566:	
	TTAATTATTT GTGACGTATT ACACGCATTA CTTTAGAAAG TGATTCCCAA AGCGAATTAT	60
	CTTTACGATA AACTA	75
40	(2) INFORMATION FOR SEQ ID NO: 2567:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2567:	
50	ATATTATTAT ATTGCTTTTT TTCAGTTTGC CGTTGTTACT TTCATAACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2568:	

5	(A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:	
10	TTTTAGGATT TGTAGTAGGT GAGCGACGTA TTNNGGATGC AATCCAGAGA ACAATAAATA	60
	TTGAGAGAGA GCAATTCATA ACGCAGTTGA AATACATGTG TTACGAATTG CTTTTATGTT	120
	AGTTTTATC ACACAGTTT TTTGATGCAA CCCCGTGATA GCGAAACTCA TATGTAGATA	180
15	ATACAGCITT TTCAGCATCA TCTACATGAA TTCCAAAACA TCA	223
-	(2) INFORMATION FOR SEQ ID NO: 2569:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:	•
	AATAATGCCA TACAGTGAAG ACCATGCGCA TCAATCGATG TCTAGTGTGT ACTACGTC	58
	(2) INFORMATION FOR SEO ID NO: 2570:	30
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:	
40	CGTTTCATTA GTTTTAAATG ATCCCCAATA CTTTTTGTAC CTTCACCAAC TATCGTTCCA	60
	ACACTATCTA CAGCTTTTC TGTGGTATTT TTAAACAGCG TCTATTTAAT GTCTTATCCA	120
	ATTAGTTTTA TCTCTTAATC CAAATTTATT AGTATGAAAA GTCCAATTTT TAAGAATTGT	180
45	CTAAACAGAT TCCGCAACAA AACCAGCTAN AAACCGTCCA TACTATTGGA ATNAAAACGC	240
- **	CAATGTTATA	250
	(2) INFORMATION FOR SEQ ID NO: 2571:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2571:	9
	AGCTCCTTTC TTTCTAGTTA ATATCATTNA ATCTTGTTTT TCAGTGTCAA AATTACCTGT	60
5	AAAAACAACA TTTTTATCTT TTAAAATAGG GATTACACTT TCCACTTCTA TTTTATTAAT	120
	CTCAGATATT TTCATATGAA TTTTTTGAAA TCCTGAATCG AAAAGTTTAG TTGG	174
	(2) INFORMATION FOR SEQ ID NO: 2572:	
0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid	
<i>5</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572:	
ó .	CATGCGGTAG GTATTTCTAA TCTATGGACA AATGGCGGAT TTATGCCAAA TGGTATTGTT	60
	GGTTTCTTCT TTGCATTATC AATTGTAATT GGTTCATACC AAGGTGTGGA ACTGATAGGT	120
	ATTACGGCAG GTGAAACTAA AGATCCTCAG AAAAATATCG TTAAAGCAGT GAATGGTGTT	180
5	ATCTGGAGAA TTTTAATTTT CTATTTAGGC GCTATTTTTG TTATTGTTTC AGTGTATCCT	240
	TGGAATCAAT TAGGAGACAT TGGAAGTCCG TTTGTTGCAA CATTTGCTAA AATCGGTATT	300
	ACATTTGCAG CTGGATTAAT TAACTTTGTT GTANTAACTG CAGCAATGTC AGGATGNAAC	360
Ö .	TCAGGGNATT TGCAGTGCGA GTCGTAATGA	390
	(2) INFORMATION FOR SEQ ID NO: 2573:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
8.	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
1		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573:	
	TAGAGTACAG AACATACGCA AGGAACTCGG AGTTTACTCA CGGGACTTnT	50
5	(2) INFORMATION FOR SEQ ID NO: 2574:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574:	
	TACAATTACA AACGCATCGT GAGATGTTTT AAGCATCAAT GAGAATCTAA CTCTCCAAG	59
5	(2) INFORMATION FOR SEQ ID NO: 2575:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:	
	GACACAACGT ATGACGCATG AAGAGTTGCG TGTTGACAAT CAAGATGATC ATAGCCAAGT	60
	TAGTCTAAAT GGTTACACAA AGGGGTCTGA GAAAGATCAA GAAGCATTCA CTAATAATAA	120
20	GGATGAGGAA GCAGTTGCTG CTAAAAATCC TGAATCAGAA GAATATAAAG TGAATGAAAA	180
	AATAAAAAA GAACATAAAA ACTTTATTTT TGGTGAAGGT GTTTCAnGCG GTAAAATATT	240
25	AGCGGCATTA TTATTCGGTA TGTTTATTGC GATTTTAAAC CAAACATTAT TAAATGTTGn	300
	TTTACCAAAA ATTAATACGG AATTTAATAT TTCTGCGTCA ANAGGGCAAG GTTGATGACG	360
	GGATTCATGT TAGTAAACGG TATTTTAATA CCAATTACGG	400
30	(2) INFORMATION FOR SEQ ID NO: 2576:	1. 1. 1. 1.
*	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid	•; •
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:	
10	TTTAAATCGT ACCTTAAATT TGAAAGTAAT AAGACACACC AATTACCTTC TAACTCTATC	60
	GATAGTTTCA AACAAGAAAT CGnTAGTACA TTCAGTTATT TAGAACGCGT TGATTACCAG	120
15	CT	122
	(2) INFORMATION-FOR-SEQ-ID-NO: 2577:	* * * *
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
, .		* 1

	CACATTGAGG TGCAGTCATA CCTTGTTTAA ATGTCCAAGC ACGTACTTCT T	51
	(2) INFORMATION FOR SEQ ID NO: 2578:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:	
	AATTATGACT ACAGGTCTGA CTCCCCCTTG TTCAGATCCC TGTACTGGTG ATAAATCTGC	60
15	TANATANACA TCTCCTCGTC TANTCATTCA TTCGTTGAAT TAGAAGATAA ATATGTTTCG	
	•	120
	TTGCAATCGC ATGCTTCACA CTCTATCGGA AAAGCTTCGT TCGCTAGGGA GAGATTTAAA	180
20	TCAGCCATTT GTGAATATCC TTCTTTTAAA GATTGTTCTA AGCTATGACT TCTATTTTGA	240
	CTAAAAGATA ACATATGAGA ACCTCCAATT GATTCCAAAA GTTATTAAAT GACCTTTAAT	300
	TACTCTAATG ATAACAAATT TTATATGCAC TGACCATATT ATTTTAACAA TTCATTTGTT	360
25	ACAAAACGGT GGATCACCCA TCATGGATAG AGTCGCGGGn	400
,	(2) INFORMATION FOR SEQ ID NO: 2579:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:	
	ATAAAAACCT AATTGACTCA TAATCTTCTA ACGGTATATC ATCCACAATC ACAGTATGAT	50
40		60
40	TAGGATTATC GTTAGATACA TCTnTCACTG CCTTATCTAA CCCCTCATCA CC	112
	(2) INFORMATION FOR SEQ ID NO: 2580:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:	
	CATGADITATA ACGGATICAT TCCATATATC AATTGCGTTT GTTATTTTAA TAATGCTATT	60
	·	

	ACTACAACTT CGATTTAAGC TATATTTATA AAAAAATGCG CCTACTCATA ACATTC	TTTG 180
	GCTATTTAAC TTTAATAAGC TAGGGCCAAG TTTGTCATAA GATAAGCGCA C	. 231
5	(2) INFORMATION FOR SEQ ID NO: 2581:	*
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60-base-pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:	•
	ACTTCGTAAA ATTTATCTTG AGTGGTTGTT TCTATATTAA GATTCATTTC ATTACA	CTCC 60
	(2) INFORMATION FOR SEQ ID NO: 2582:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	8- ·
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:	
30	GTCAAATGCT GAGTTCTAAT AATGATGTTG GCCACCATGC ATACAAAAAT GCTAAA	AGAG 60
	AATTACGCAA GATTTTAGAT AGCTATCTCG AAAATGGTAA ATTAAAATAT TACGAT	ATTA 120
	TCGTTACAAG CAATTTAGCT ACTAAACATC CGTTTTTCGA GTATGCACGT TCATTT	GATT 180
35	TTATCATTGT TTCAGATATC GGTTTAATAA ACGTTGATGT AAAAAGCTGG GGTGAA	AAAA 240
	CATTITATCA CITTGATGTA CCTGATGAGC ATGATACAGA nAna	284
	(2) INFORMATION FOR SEQ ID NO: 2583:	* .
40	(i) SEQUENCE CHARACTERISTICS:	· · · ·
	(A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) lorohogi. lineal	*
. 35 .	العام المدالة التي العام والأنف من مسل الأسل المساولات المداعلات المداعلات الأنفية العام الداعل الم	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:	
50	GAGTCAGTCG AAGTTTGTCG TTCGACCCGT AGAAGTGTAA AACGGCATTG TGAATG	
	(2) INFORMATION FOR SEQ ID NO: 2584:	· ·
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 67 base pairs	

,	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584:	
	TCGACTAATG TAATGTAGGC ATTGGACGTC AAATGTAATG TGGGGCAATC CGACGAGATG	60
10	ATGGTGC	67
70	(2) INFORMATION FOR SEQ ID NO: 2585:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:	٠
	CGTAACCGCC CCTTGTCCGG GCCCTCCAAG CCTTTTAAGG GGACCCCCCG GA	52
25	(2) INFORMATION FOR SEQ ID NO: 2586:	
23	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 238 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:	
35	ATTAGCÃACA ATGTCAGATA ATCGATÁCCA ACTAATTAGG CGAGAAGCGG TTTCTCÁTGG	60
	TCTTAGTGGC CTAGAAATTG ATGTATTTGA TTTGCATTCA AATAAGTCTA GACATATTAG	120
	CTCGTTATCA GGTGGAGAAA CTTTCCAATC GTCGCTTGCA nTAGCTTTAG GGTTAAGCGA	180
40	AATTGTACAG CAGCAATCAG GAGGTATTTC ACTAMAATCA ATATTTATTG ATGAAGGA	238
	(2) INFORMATION FOR SEQ ID NO: 2587:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:	
	ACTGGAAAAA ACCGCnAACA CGACATTGTC AAAACGACGG CCAGTGCCAA	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
THE ST WINDS AND	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:	
10.	GnGCAATTAT ACCACTATAT TTATTTCTTA TACTCCATTT GATTTATAGT TGTATTAATA	60
	CATTGACTCA AAAACTAATT AATCAAATAT GTTTTTTAGA TT	102
15	(2) INFORMATION FOR SEQ ID NO: 2589:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:	:
	GCATAATATC GGATATGCGn GTGTGTCAGT CnCATAGTCG nTGGATTGCG	50
	(2) INFORMATION FOR SEQ ID NO: 2590:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:	
	TTANAAATTG CCTnTCCAAT TnTAAGAATC CTTTTTCCAA GGTAAAAAAA	50
40	(2) INFORMATION FOR SEQ ID NO: 2591:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:	
30	CTTCATCCCT TACTTTTAAT TGTCACGTCA AATAATATTT GTCTTTAACT AGTAATAACT	60
	CCAAATATAT TTAGTTTGTG GTGCTAGCTA TAAACACAAA TGAnTCATAA CACTATATTT	120

	TGATTTTNAA TTATTTATAT	200
	(2) INFORMATION FOR SEQ ID NO: 2592:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	(¥)
,0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	
15	TGCATTAATC ATCTTGGATA CTCTTTCTAC CAAAGTAATG ATTGCACTAC CATGACGACG	60
	ACCAGCAATA GTAT	74
	(2) INFORMATION FOR SEQ ID NO: 2593:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:	
30	CACCTGCTCA CCTCTATTTT CAAACAATTA TGATTGAATT GAATCATTCT AATTTTTGTA	60
	AAGTTACTTG TTTAATTTAT TATATTTATT AACTCTATGA TAACAAAAAT ACTGTTTGTG	120
	TATAACAATA AATTGAGATA CTCAATAATT TGATAATGTG AAATTGATAC TTTTCAAAAT	180
35	AGTTGAATAT GACAATTAAT GATTAGTTTT GCNATGGTGC TATAANCAAT ATTTAGCAGT	240
	TATC	244
	(2) INFORMATION FOR SEQ ID NO: 2594:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2594:	
50	ATATGGTATG GAACTAACGG AAGAAGGCTT AGCATACGTT AAATATGCTA AAGTGATTTT	60
	AGATAGTAAT AGCGAATACG AGAGAGANAT AAAAGGACTT TACAATAAGA AGGTAAATAT	120
	AAGTATTAAC ATGCAAGANA GTCAGTATTT GTATCGCTAC TATAATAAGA TTAGTGAATG	180
5 5		

	(2) INFORMATION FOR SEQ ID NO: 2595:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:	
	AAAAAGTATT AAAAATTGCA ATTCTTAAAC TGTTATTCAT ATTAATATTT CTAGCAAATA	60
15	ACATTGTAAA ATAAAGAAAA ATAATTAnAG TATTGCACTT TATTGAAATT TATATTACGA	120
	TAGTAATGCA GAAATTTATA TATGCAAAAT ATTATA	156
	(2) INFORMATION FOR SEQ ID NO: 2596:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		•
· ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596:	
	TGATCCGCAA ATCGCTGAAC ACGTTCTTCT ATTGGAATCC CTCCATTCAC TTTTAGCTAG	60
30	AC	62
	(2) INFORMATION FOR SEQ ID NO: 2597:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:	
	TTACCTTTAG nTTTTAAAAC CTGACCCTCC AACCAGCCTA ATTGGTTAAA TGGGGATCCA	60
45	TTTATATAAT CCCAGGCCTA ACCTTCCAAG GACCAACCTA AGGGATTAAT CCCCCCCAATG	,12,0
•	GCCAAAGTGG GATGGGTAAT	140
50	(2) INFORMATION FOR SEQ ID NO: 2598:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:	
_	ATTANTTGGG GAGTTAAATT AAAAAAAAGG GGTTCCTTCC AACCGGAnCC ATTCCCATTT	60
5	TGGATTAAAA ATTCCCGCCT TTGAAAAAAT TGTTTGCCGA ACCGCCCTTA AG	112
	(2) INFORMATION FOR SEQ ID NO: 2599:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:	
	ATACCGCCCC CAGTTCAATA AGAAGCCCTG GATCAGACCT GACCCTGGTA TGGGGGGAAT	60
20	ccc	63
	(2) INFORMATION FOR SEQ ID NO: 2600:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:	
	ATACTATGGA ATGCCTTAAT GGTGGATAAT TTCACCAAAT TAATTTTAAA AAC	53
35	(2) INFORMATION FOR SEQ ID NO: 2601:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:	
10	AACTAAAGGT TCTAAAGATA CAGTAAAAAT TGAAAATAAC TATAAAATGC GTGGCGAGAA	60
	AAAAGATGGT AGT	73
50	(2) INFORMATION FOR SEQ ID NO: 2602:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:	
	CGGTTGCCAG CCAAAACTTG GCADCCAAGG CAATTATAGC AAGGCACCCA CCTAAATTTG	60
10	CGGACCACCC GGAATGCGGC CACCAAAGTT GGTGGGAGGC CATTTTAA	108
	(2) INFORMATION FOR SEQ ID NO: 2603:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603:	
	AAGCTTATAA CTATTTGTGT TTGTGATCGA GATAGGTTTG CCTGTAAAAA TGGCCATCA	59
25	(2) INFORMATION FOR SEQ ID NO: 2604:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604: ACGTCCAAAG GGCCGTTCGC CCCAGANGTG CTGGCAAGGT TCCACAACGN (2) INFORMATION FOR SEQ ID NO: 2605:	50
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2605:	- * -
	GTCCAATGTC ACATTAATTG ATTGGTATAA GCGATCACAA GGnCATAGTG AATATTTTGC	60
50	ACCAGACGGT GTACATTTAG AGTACAAAGG AGTCCTAGCT TTAAAAG	107
	(2) INFORMATION FOR SEQ ID NO: 2606:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:	
	GTTTAAAGCA ATTTGGAAGG ACATTGGTTA AAGGATGGGA GTGGCAAAAT CTGG	54
10	(2) INFORMATION FOR SEQ ID NO: 2607:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with applicable percent percent and the second	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:	
	GTTTTAGCTG AAGTTAATGA TGAAGATATC GGAGCTATGG TAATTAAACT AGTTAAACTT	60
	ATTITCATGC ITGATTATGT TITATTTCAT TCAATTCAAA AAAGCTATAC AACACATATG	120
25	AATGAGCTTA AAAATTGTTT CGATTACATA GCTGÄATTAG ATAATCATTA TGCATTAGCA	180
	ATGTATCGTA GAACGCTAGA ATGTTATACT GAACCACAAA TTGATGATTC AAATGATGGC	240
	ATAGTATTCT CTGAGTTAAC ACATCCACTC ATAGCAGATG GCAGTAGCCA ATGATTTCnC	300
30	ACTATCACAN AATATACTGT TAACTGGGGT CGAATGCTTC GGGNTAAATC AACATTTTAT	360
	GGAAAT	366
	(2) INFORMATION FOR SEQ ID NO: 2608:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:	
45	TTCTTAGACG TCAGGTGGCA CTTTTCGGGG AAATGTGCGC GGAACCCCTA TTTGTTTATT	60
	TTTCTAAATA CATTCAAATA TGTATCCGCT CATGAGACAA TAACCCTGTA TAAATGCTTC	120
	AATAATATTn GAAAAAGGAA GA	142
50	(2) INFORMATION FOR SEQ ID NO: 2609:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:	
5	GGGTCGTCAA TTGANGGCAG GTAGAGCATT AAGTCAGAAT TGTAGTAAAT	50
	(2) INFORMATION FOR SEQ ID NO: 2610:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:	
	ATTGGGTGAT GAATTTTGAC GGTATTGTCA AGTCCAGTGG CTAACTTCCG G	51
	(2) INFORMATION FOR SEQ ID NO: 2611:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:	
30	ACAAACTTCG GACTGCCAAT TACATTTACC TTGGGGGGTC AGAAACAATG GGTGCATAAA	60
	GGCCCGTGTT TCGAAACGGG AAAAAGCCCA GCA	93
	(2) INFORMATION FOR SEQ ID NO: 2612:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:	
45	ATGATGTTTT TCGGCTAATT TTTATACTGA ATTTAGTTTA ATTAACTTAT GATATTTT	58.
	(2) INFORMATION FOR SEQ ID NO: 2613:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:	
	TTCTCACCAT TAACTATGCA TACTCACTTT ACACATAAAT TTGCTTAACA TGCAGAACGG	60
5	AAATAAATCA TTACCACATA TAGATCCCAT CATATATTA nA	102
	(2) INFORMATION FOR SEQ ID NO: 2614:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:	
	TGAACTACAA GACGCTTATA TCATTGACGC ACATTTCTCG CAGTGAAAGA AACACTTGCG	60
20	TA	62
	(2) INFORMATION FOR SEQ ID NO: 2615:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 101030011 1211001	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:	
	TGGAGCATTT CACATACATT GGCAACCTCA TGGAGCTTAT CATTCTACCT TGGGGnACAG	60
35	ATATAACAAC ACTAACGCAA CATGGATGGT GTCGTTGATA ACTTTCAATC TATAGAATTA	120
	(2) INFORMATION FOR SEQ ID NO: 2616:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:	
	CTGTAGTAAA TTGCCAGAAT CCGTATCAAT ACCAGTCTGT GACTGCGTTG GCC	53
50	(2) INFORMATION FOR SEQ ID NO: 2617:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:	
•••	ACATATGATA TGAGTATATT AACGTTTAAA TTATGGATAC TCTAAAGACA GGCGATTTTG	60
. 5	ANAAATCAGC AAAAAGTTAT ATGATGTAAG TGGGACAGAC ATACTAGATG TAACACATTA	120
	ACCAAGTG	128
10	(2) INFORMATION FOR SEQ ID NO: 2618:	
. 10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:	
20	CCTAACCGTG TGTGTATGTA TACCTACAAA AAAATTTACA TTGTGACACT GCGTACGTG	59
	(2) INFORMATION FOR SEQ ID NO: 2619:	:
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 54 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619:	
	GCCCATGGTC AATCAGACAC ACGGATTGAA CGTTAACAAT TTATGACTTT AACA	54
35	(2) INFORMATION FOR SEQ ID NO: 2620:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40	(b) Toroboot: Timour	00
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:	• P
45	ATCATTGTCA CATTGAGTAG CCGTAAAATG GTCAGACGAT CAATGCGAAC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2621:	
•	(:) CRAHENCE CUADACTEDISTICS.	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) SIRMUEDIAGO. GOMETE	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:	
	CTAAGTGTCG CCCGAATAAC CGTCAATCCA CGGAGCACAT AGGATCTCCC ATG	53
5	(2) INFORMATION FOR SEQ ID NO: 2622:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:	
	TGGGACCGAT AATCATTCGC ATGAACACCT TCCACCGTCT CTTACTCACT ACCTACGGC	59
	(2) INFORMATION FOR SEQ ID NO: 2623:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:	
	ATTAAATTGT TATTTCGTCA TTAGGTGACA ACTTGTATGT AGATATTTTA ACATATTTTA	60
30	TGCT	64
	(2) INFORMATION FOR SEQ ID NO: 2624:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:	
	CCGTCCCAGA ATATCATATG ACAAATGTTA AGAGACTTGA ATGATCATAC ACGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2625:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:	
	GTGGTCACCA GGTACGGGGG ATACAGGGGG TTAATCCCAC CTTGGATAAG TGGAAAACGG	60
5	ATTTCC	. 66
	(2) INFORMATION FOR SEQ ID NO: 2626:	٠.
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:	
	CCACCAATGG GTGGGGGATG GAATAACCCT TAATGCGGTG GTACCCGGGT AATGGTAGCC	60
20	cc	62
25	(2) INFORMATION FOR SEQ ID NO: 2627: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:	
	CATGTTTTTT CATTCCTTGA TGACGACACT AGAGGTTCCC GTGTTCATTA TTAA	54
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2628: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:	
45	TTGGCCAATG GGCGATACAC CCTCTCAATT CGATACATAA CTCAAGGCTC AGTCAT	56
50	(2) INFORMATION FOR SEQ ID NO: 2629: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:	
	TGTCGCTAGG TAACCGTGCA TCGTTCACAG GTACnTATGA TTTCACCnGA	50
5	(2) INFORMATION FOR SEQ ID NO: 2630:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:	
	GAAGGnCCCA AACCAGGCGT TAAAGGCCGA TTGGGTTTAA ACCAAAGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2631:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:	
	CGCGAGTGTA TCCGTCGATA TGTCGAGAGG AAAGATTGAA GTGTGGAAGA GTGTTGAGTA	60
30	ACCCT	65
	(2) INFORMATION FOR SEQ ID NO: 2632:	;
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:	
	TGAAAGAACT TTAGCTAGAC GTTCGTAAAG GTCTTTTGAC ATAAAGCTAG AGA	53
45	(2) INFORMATION FOR SEQ ID NO: 2633:	,
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·

	AAAAGCCAAA AGGAATTAAT TAACCCCGGG GIITAATTIC TAATGGGAAT IIG	53
	(2) INFORMATION FOR SEQ ID NO: 2634:	•
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
	(B) TYPE: NUCLEIC ACIU	
	(D) TOPOLOGY: linear	
10		
· ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:	
15	GGTGTTCACA TTCTGAAGGT TTAGAGAGTT AAGATTATAT ATATATAAGT TTTGGGGTGA	60
	TAGATATG	68
	(2) INFORMATION FOR SEQ ID NO: 2635:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:	
30	CCAATTTCAC TTGGTGCTGC CATTTCGGTC TCTCGTGTAC TTGTGATTGA GGTGCCATTG	60
30	TTCCCGTAGA TGGTTCACAT	80
	(2) INFORMATION FOR SEQ ID NO: 2636:	,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	4 11	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:	
	CTTACACCCA ACTTATTGAC TTATAATCTA TTAAAGTGCC ATTTTACAAT CTGAATCCCT	60
45	TAATATAGCA ATAATTACAA CTTCCGACAA ATGACTTGTT TTATGTGCGT GATTCATCAA	120
*	TGAACATCGT AATGCGACnT AATA	144
50	(2) INFORMATION FOR SEQ ID NO: 2637:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:	
5	TAATTCGGCA ACTAATATCA AGATCATGAT CAAATACTAC TGCCATTTTC TTATACCTCT	60
	TAATGTGAAA TCACTGnCAA CACATAACAT CTTAAAACTT TGAC	104
	(2) INFORMATION FOR SEQ ID NO: 2638:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:	
20	CATTCATCCG TTTTTTTGGT TCATGTACAT ACCATTGTTT TGTACACAGC GAAGTCAGTT	60
	AACCTTATAT CCTTGTATAA CAGTTGAAAT CGGCAATATT AAACAGTACT TTCCCAATTG	120
	CTTTCTTCCT CAATTGTGCG ACGGACTGTA n	151
25	(2) INFORMATION FOR SEQ ID NO: 2639:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
or.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639:	
<i>35</i>	AAGATCAACT GAAATTCATG TGTTGCCCTT TATTAAGATC ACATGGAAAT A	51
	(2) INFORMATION FOR SEQ ID NO: 2640:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:	
	TTAGCTAGTT GGTAGGACGG CTACCAGGCA CGTCATAGCG CCTGGAGGGG TC	52
50	(2) INFORMATION FOR SEQ ID NO: 2641:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

<i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:	
	CAGGCTTAAA CCTGAGTTAG TGCCATTCAT AATTGCAATC CCAAGCGACG GAA	53
10	(2) INFORMATION FOR SEQ ID NO: 2642:	- Annual Control of the Control of t
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:	
20	ATGTTTGTCA TCTGGAGCNA TAGAACAGGG TTCATCATGA GTCATCAACT TACCTTCGCC	60
	GACAGTGAAT TCAGCAGTAA GCGCCGTCAG ACCAGAAAAG AGATTTTCTT GTCCCGCATG	120
	GAGCAGATTC TGCCATGGCA AAACATGGTG GAAGTCATCG AGCCGTTTTA CCCCAAGGCT	180
25	GGTAATGGCC GGCGACCTTA TCCGCTGGAA ACCATGNCTA CGCATTCACT GCATGCAGCA	240
٠	TTGGTACAAC CTGAGCGATG GCGCGATGGA AGATGCTCTG TACGAAATCG CCTCCATGCG	300
30	TCTGTTTGCC CGGTTATCCC TGGATAAGCG CCTTGCCGGn CCGCA	345
30	(2) INFORMATION FOR SEQ ID NO: 2643:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:	
•	CTTATACGGA TGTATAGGTC GGTCCAAACA TTTGATTTTA GTGGAGAGCA GCCTTTCACA	60
	AATTATGTTC AATGT	75
45	(2) INFORMATION FOR SEQ ID NO: 2644:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	TACCGGTTAA TTAACCAGGG CCCCGGTAAA AAAATCCCCG GTATTCCCCA TTCCAAC	57
	(2) INFORMATION FOR SEQ ID NO: 2645:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:	•
15	AAAGCAATTC GCCCGATAAG AGTAGAGACG AATTGCTTTT AAGGTTAAAA CAAAGTGAGT	60
	TCAATT	66
	(2) INFORMATION FOR SEQ ID NO: 2646:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:	
	CAGTATAACT TGTGACCTAT TTAGAGGGGC ACGGTTGGTA CAATGAGTCT GAAACCGTAT	60
30	CAA	63
	(2) INFORMATION FOR SEQ ID NO: 2647:	•
35	(i) SEQUENCE CHARACTERISTICS:	
33	(A) LENGTH: 208 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:	
	TAGAACATGG ACCGGTATTT TACATCCTGT ACGCCTAATC TGTTGTAAGT ATCTTTAGTG	60
45	AACCGTTGCT CTGGAATAAC CGCGATTCTG GGCAAACAGT GTGTAAACCG ACTnTATGGG	120
	GATGTGTGAG TAATCATTGT GNACTGTTGA TTCTGTTCTG GAATCCCATT TCACAACACG	180
	ATCTTGGAAG TGCTGTCATT TTAGATGC	208
50	(2) INFORMATION FOR SEQ ID NO: 2648:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:	
	TTTTAACCTA AAGAATACTA ACACTAAAAG AGAATGATTC TGTACCGCTT TCCTTTTCA	0
10	CTCAATAACT TTATATTTAG TTATCCTTAT AATTGTAATT TATGTTAGTT GGTAAATnTT 12	:0
0 -	TACATATATG TATTTGATAT GCTTGTAAAT	0
	(2) INFORMATION FOR SEQ ID NO: 2649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:	
	AGTTTAACTG ACATCGAGTG GTACACAATA GCAATGGTTG TGTGTAAAGT CCTGGTGACA	0
25	ACATATGAGA GTAACATTTG TAGTGATTAT CTTGTACTGA GAGAATTGAC ATCTATGAAG 12	20
	TTTATCACGT GCAAATAT	8
30	(2) INFORMATION FOR SEQ ID NO: 2650:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:	
40	TCACAATTGC AAACTTCTGG CACGCACTCA TCTGCGATTT CACAAGCTAC AT	52
	(2) INFORMATION FOR SEQ ID NO: 2651:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:	
	GAGTCAAATT AAAATGCCTA TTGGCCATTG TGATGTATAA TCACTTAGTT CACATATACT	60

	(2) INFORMATION FOR SEQ ID NO: 2652:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:	
	GGGCGGTAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	60
15	AGCAGAG	67
	(2) INFORMATION FOR SEQ ID NO: 2653:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:	
,	ACACATCTTA TATGTCTTAC TGATTTAAGG AAAGAATCAG TGGATCAAAC TG	52
30 .	(2) INFORMATION FOR SEQ ID NO: 2654:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:	
	CAAGCTGTAA ACCAAGAATT CCAGCATTAA ATATCTCTCn TGGTATCGGT TGAGATAAAT	60
	ATTCCGTGTG CTCATTAAAT GTAGTAATCT TTATTGTAGT TCCTCAACCT ATGACACGAA	120
45	TATTGCACAA TATTAGTATA GACAAATATT TCCTTTATAA TCTCATTCAA TTTTCTCCTT	180
	TAATTATGTA TCATACATTG TATATTCTCA TATAGACGTT TTGnCATATT CATAGCTTCA	240
	ATATTAGTGC ATTTATGTAT T	261
50	(2) INFORMATION FOR SEQ ID NO: 2655:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:	
	AATCCTATTA GCACTTATAA TGATCATGAA AAGATGTCAT CGAGAATCAC CTAGTACACG	60
5	(2) INFORMATION FOR SEQ ID NO: 2656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	e mais a securis — e s areas deser-
	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	& .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:	.,
	CGCCGAAAAC AATAAATTCT CGGAACATAG AATTTATCAC ATACCACGCT TGGATTATCA	60
	CAATGGACTG AGTCG	75
20	(2) INFORMATION FOR SEQ ID NO: 2657:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:	. :
	TATTAAATAT GCGGTTGCAT ATATCTACGG CATGATTTAA CCGTGAACCA TGAATCATTT	60
	TAATCGGGCA CGCGTAAAAT GCTCATTGAT CCGCANATAC CACTATATAT CTAATAGCAA	120
35	GCGTCCAGGA TTCTGTGTTT TATAAATTTA AACTAACTGA AACGTGTGTA TCAGTTCACT	180
	CCGnTCGATT ACCACACTTC AA	202
40	(2) INFORMATION FOR SEQ ID NO: 2658:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:	
<i>50</i> .	CGTACATGTG CATCATGTAT CTACGTCAAT AAGATGATGG GGTCACATGA TTGGACCATT	60
. •	(2) INFORMATION FOR SEQ ID NO: 2659:	

5	(A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:	
10	CTAATCATGT CATGTCTACA ATTATTTGGA GTATTGCTGA CGAAATGCGT TGTACAACTT	60
	TTTCATTCTA GCACCTTGCG GGGGCCCACA AANGAATTGG TCCATTCTCA NCATCAGTGG	120
	GGGGCGCGAA TAATTTCGAA ATTATTCTGC CACTCCCACT TCATCGATTA AGTTGTAACT	180
15	CTACATTACA TTTGTCTTAA ACCATTG	207
	(2) INFORMATION FOR SEQ ID NO: 2660:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:	
	TTAATTATGT ATAATACTTA ACAAGATCAC CTGATAGATG TCTAAATATT ATCT	54
30	(2) INFORMATION FOR SEQ ID NO: 2661:	* *
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:	
	ATTAAAAAA AATGGGGTAA TTTCCGCCAA ATCCCGTTTC CCCCTTGCCA AGGCCAAATT	60
	TAACCACCCT TGCCAAATnA TTAAGCCAAA TTTTCCGATA TTTGTTTCCG TAATGTTTCT	120
45	TTAATTAATA	. 130
	(2) INFORMATION FOR SEQ ID NO: 2662:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ARAGTARAAC CAGTCTATTC ARAAAGGTGA ARAATGGTGA CGCAGCGTAA ATAANTGGTC	60
1 9	TCTGGTAGGG TAAATCGCGT TGTGGGTTTG TCACATCAGG AACT	104
5	(2) INFORMATION FOR SEQ ID NO: 2663:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(b) Topologia linear and a second a second and a second a	, man grant in the same of
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2663:	# 1 DE
	AAAAAGAATA AAAGGACTCG AAAAACTCAA AACTTATTnT AGATAGTCAT CGTGACAAGA	60
	ARCAAACATT TAACTAGACT AAGAAAAATG CTTCGATTAA AAGGCAGACT CATCA	115
20	(2) INFORMATION FOR SEQ ID NO: 2664:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	" <u>;</u>
		*
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2664:	
	GCATGCGCCA CGGTGTCTCA GCAGAGTGAC TGCCACCTTG TGTGCGCAGA GTCTGCGCCT	60
	AGTACAGTCA GGGTGAAACA CNCTATACGC ATTAGGTACA GTACTTCCTG TCTCCGACTT	120
35	GAGTAGAACG TGACATATCT ATCAGCATTC ACTCGAAAAA GGGA	164
	(2) INFORMATION FOR SEQ ID NO: 2665:	
,	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	,
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2665:	المناف المناف
	AATTACGCAA THTCCCTGTC TTAHTGAAAG GAATTGACCT GTTAATTCGT	50
50	(2) INFORMATION FOR SEQ ID NO: 2666:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:	
5	ACAATTCAAT AGAATTTACC CGTAACAGCG TTGCACTGCA CTCAAGACGG CTGACGTATA	60
5	GCAC	64
	(2) INFORMATION FOR SEQ ID NO: 2667:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667:	
	GTAGAACCAG CGACGGCGCG GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCGC	56
20	(2) INFORMATION FOR SEQ ID NO: 2668:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2668:	
	GGATCGATTG ACTACATGAC GTGGnGACGC AATTATACGG ATAGTCCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2669:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Toronogi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:	
45	GCAAGATCGA ATTACAATCA CGACGATCAA CGCACGTAAT CATCTCTGAT CACAGTAA	58
	(2) INFORMATION FOR SEQ ID NO: 2670:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:	
_	ATACCAGCCA GACTTCGATC AACAGTGTTC AACTGCATTG CCCAGTAAGT TGGATAGCTC	60
5	GCACATAGTG CTACAAGTTA ACATATACAN CGAGTTTGTA TCTCAAGCTT GAAGCTTGAC	120
	TACC	124
10	(2) INFORMATION FOR SEQ ID NO: 2671:	
8.4	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	•
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	A LA CHAMPAGE PROCESSION OF TO MO. 2671	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:	
20	CGCTTACTGC ATAAAAGCCC CTAACACCGG GGCACTACGC TCGTTCGCCG GCTT	54
	(2) INFORMATION FOR SEQ ID NO: 2672:	* .
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	1
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:	
1 X 1	TCAGCGATTT AACACTAATT CTTCTAGCTA TTCTCTGTAT TTGGACGACG A	51
35	(2) INFORMATION FOR SEQ ID NO: 2673:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673:	
	GATAAGTTGT-ACCATATTTC GATGCAATTC-AATGGACAAT GAGGTCACCT GGCTTGT	5.7
	(2) INFORMATION FOR SEQ ID NO: 2674:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:	
5	TCCTTTGGCC AATTTTTCCA AGTTTTAACC CAAACGGCCC GGGTTGGGTC CCCAATTCCA	60
	ATCCAAAATA ATTTTA	76
	(2) INFORMATION FOR SEQ ID NO: 2675:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:	
	TCCGGGAACC TTACCCAGTG GCCCTACCCT ATGGGTTAAC CCAACCAGTG GGGCCA	56
20	(2) INFORMATION FOR SEQ ID NO: 2676:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:	
	TGCGGGGTCT CGTGCCGCCG TCTGCGGTGG TTGTTTGT	60
	GCCAGCT	67
35	(2) INFORMATION FOR SEQ ID NO: 2677:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:	
45	GGACAGAGGC CTTGACCCCC CCACAATCCT GATTCACCGT AAGTTGCTCT CCCCC	55
	(2) INFORMATION FOR SEQ ID NO: 2678:	22
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:	
*	AAATTGGGGC TTCCATCCCC ATTCCAAATT ATTAAAACCG TTTAGGGGCC TTATTGGCAC	60
5	CATGG	65
	(2) INFORMATION FOR SEQ ID NO: 2679:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs	At the second terms
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:	
	ATTTTGGGAT TAAACCCTTA ATTAAAATTG GCCGGGAAAA GGAAAAGGCC GGTTGGGAAA	60
20	AGGCCAAGGA AAAGACCTTG GGANACATTA AAAACCTTGG GCCAAGGCCT TCCAAAAAACC	120
	GGTTGGTTTT TATTTTGGGA ACCAAATTGG GGGGCCGGGA TTGGGCCAAA ACCTTG	176
25	(2) INFORMATION FOR SEQ ID NO: 2680:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	131
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:	
35	GCCCCAAAGA ATTCAAATAA CCnTTCGGAC CCGGTAATGG CCACnTAATT	50
	(2) INFORMATION FOR SEQ ID NO: 2681:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:	
133	TGTGCATTTA TTGCATAACC TATATATGTG TGACCGATAT TTAGTGCGCA CTTCAATGGT	60
50	GCG	63
	(2) INFORMATION FOR SEQ ID NO: 2682:	
	(i) SEQUENCE CHARACTERISTICS:	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:	
	TTATCCAAGC TTCCGGATAG TTTCAAGAGA AACCAATGA ATCCGTTATG GGACCAATGG	60
10	GT	62
	(2) INFORMATION FOR SEQ ID NO: 2683:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:	
	AACAGCATTC AAGTGAGTTA CTGGGGTTTA TGCACCATCA TTGGATATCT GCACAAGGAA	60
	TTTCAACGTG	70
25	(2) INFORMATION FOR SEQ ID NO: 2684:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:	
	CTTAAAATTC CCCAGTTTCC TTCCTTTTAA ACCCCATGGA ATTATCCCGG CCAAAAATGG	60
	ACCATTAT	68
40	(2) INFORMATION FOR SEQ ID NO: 2685:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:	
30	TTTTAACAAA ACACCTAGAT ATGTTCGCTG ATCAGAGATG CCTGGTGACC GGTGATCC	£0
		58
55	(2) INFORMATION FOR SEQ ID NO: 2686:	

	(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:	
10	ATCCATCCTT ATAGGCATTC ATCCTTTAAC ACCAACGATT TACATTATGG ATATAACGAC 6	0
	TTGAGGGGGA ACGTGGGGTC CATCCTA	7
	(2) INFORMATION FOR SEQ ID NO: 2687:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:	
25	ATGGCTGGGC GCTTTACGTG GCCACATTAG GATTATGGCA CTGAAGCGTA 5	0
	(2) INFORMATION FOR SEQ ID NO: 2688:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:	
	AACGGTCGTA GGCAAGGGAC TCCCCCChGG nGCTANATGA ACTGGTCGTA	0
40	(2) INFORMATION FOR SEQ ID NO: 2689:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:	
50	GCTAGCATCC ATGGCTCCTA TGCCGAAGCT GAGTAGACTT AGGTGACGGG TGCGTGACAA 6	0
	(2) INFORMATION FOR SEQ ID NO: 2690:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
5	(vi) CRAVENCE PERCENTANTON ORD TO NO. 2002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:	
	ACTTAAAAAA GGAAGATTAG AAAATTCATA AAAAAATTTT GCTGGGGATT CTTGATCCCA	60
10	TGGGCCCATn TCTGGATTTA GGTTATTGGG TTGGCCAGCC AGGTTAGCGG GGCCCCCATT	120
	CTTCCAGGCT CGGTTTCTCC CAGGAC	146
	(2) INFORMATION FOR SEQ ID NO: 2691:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·.
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:	
25	ATTGGTGTCT AGATCATTTA ATACTAAACA TACAACACGA CTAATTCCAT TCA	53
	(2) INFORMATION FOR SEQ ID NO: 2692:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2692:	
	TATTGAATTC AAACTATGTA CTATTTCCTA AATAATACAA TAAAAACGAC TACCATACTG	60
	GCCAGAAATA TATTTTATTT GTTACACATT AATTTCAnTC CTCCATAATT TGC	113
40	(2) INFORMATION FOR SEQ ID NO: 2693:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:	
	GACTTATGTC CGTGTTCCGC TGAAGGCACG TCACGTAAAC TACCCGGTAC AGCT	54
	(2) INFORMATION FOR SEQ ID NO: 2694:	
55		

5	(A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	12.0
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:	
10	CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT TATATCATCA	60
	GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTDACA	120
	ACGCCGAGAC TCAATGGCAT CCTGTACnTG ATCTATGCCG GAAAACACTA GTCTATATGC	180
15	CCGCAGACGT CCACTATATG CATC	204
	(2) INFORMATION FOR SEQ ID NO: 2695:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695:	-
	ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT	. 60
	GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA	112
30	(2) INFORMATION FOR SEQ ID NO: 2696:	2
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	er Pagas er
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696:	
	TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC	60
	GTAAACACAA TITACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT	120
45	AGCACTCATC TATAGTACTC AAATTCAG	148
	(2) INFORMATION FOR SEQ ID NO: 2697:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

ED N 786 519 A2

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:	
	CCTATAATGC TAAACTTCAT ATATCTCTTT GGCAACTATC TCCCTTCTAT TACCAAAGTT	60
5	ACGATAGCAA NACAATAAAG CAAGCATGTC ATGCTTACTT C	101
	(2) INFORMATION FOR SEQ ID NO: 2698:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:	
	TTGATAACAT TTGAAAAGCT GCTCCGATAT CAGCAACCAT TTCATCGACC ACAATATACG	60
20	ACATAGTCAC AAAACTGATT AGAAGACACC AATTGCTGAT TATCAAATCA CAAATTTAAG	120
	nTGAGATTCA A	131
	(2) INFORMATION FOR SEQ ID NO: 2699:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:	
35	GATAGCGGTT GTTAATCAAA CGATGGTACA TGCTTACATG ATGCGCCATG TTTGATAACA	60
	GCTCTCTATG ATTACGATGG AAGAATGGTT TATTTCATCT CAATTATTCC TATTAAATGn	120
	AACATGCCCT AGCAAACGGA TACAACACAA TCACAACATC ACTITGAAAT TGTTAAACCT GAGAACCACA TACGCGAAAC AC	180
40	(2) INFORMATION FOR SEQ ID NO: 2700:	202
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:	
	TTCGAATTTA ACAAACGTAT CACGCCATAA AGGTTGTATA TGTTGTTTGT AAATTC	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701:	
	TATTGCGGGC TTATTAGTAC ACGATCTATA TGATGGTCAA ACTTATGTCT TTCATATTCA	60
	AGTGTGACAT TGTGCGGTGA TTATATTTAC GCGTCGTTAT CTACGAACGC CACATTAAGA	120
15	TTCGAAACTG ACAATCAACT CATAACGCCA TGGTCCTAGA AAn	163
	(2) INFORMATION FOR SEQ ID NO: 2702:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
<i>25</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:	
	TANACAATCG TAATCGAGTC AATGATGTGA ATTGCCCACG TGAGCGCTAA GAATGCGACA	60
30	TTCCACACGA TAAGGCAGTG CGCATGCGCA CTGACCTAAT AACACTGAGG ATGAGTACTA	120
30	(2) INFORMATION FOR SEQ ID NO: 2703:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:	
	CTGCTTGATT AGGATCGTAT TTATATGAAG ACTGTGTTCC ATAATGATGT GCGTTTTGGC	60
	TGAAGTCCCT TAAATGTACn TGTGTATAAA TGCTATAATT TAG	103
45	(2) - INFORMATION FOR SEQ ID NO: 2704:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •

	TETATAGE CICICATEGI TIGGICACAT ATTACCATTA TICATTITAT GITCTEGATA	60
	ATTGTATGCG nTGTTTCTCA CTGTCATCAC ATTGATACAA CTCATTGTCA CTTTATACGA	120
5	TTCACACACC TCGATACGAG TGATGATATA TGACAAAGCT	160
	(2) INFORMATION FOR SEQ ID NO: 2705:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		*
13	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:	
	TTATTGTTTA AGATGGTTAA ATGTCATCAT ATAACANTTA ATTTTTAGCA ATTCGATATG	60
20	CCTATAACCT ATAAATTTCA CGTCAACAGA AAGTGACAGG CATACGGATG TGTGAA	116
	(2) INFORMATION FOR SEQ ID NO: 2706:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:	
	TTACACCTGC AGTGTATGGA CTATGGCTAG ATACAATAAT TTTAGTCATC AANCTACATC	60
35	ATACAAACTT ACGACTTACA CATATCTGCT TCTANATCTT CTAACTGATT AAAGCTCGAC	120
	ATCGGAAGCT ATTCTAAATT ATTATCATAT ATCTAACTAA CTGACCTAAT ATATACTACC	180
	ATAAATAACC CGCCTCAAGG TTCGCATCCG CATATAATGC TTAGAAGTC	229
40	(2) INFORMATION FOR SEQ ID NO: 2707:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:	
	TCCATATCAA TCCTGAAAGT ACACATATAT CGTACACCAT ATGGTACAAT TTCCTATAnT	60
	ACACATCACG CATCTTTCAA GACACATGTT AGGCGCTGGT CGGTGTATCT CAGAAATGCA	120

(2) INFORMATION FOR SEQ ID NO: 2708:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
W 10000 11 Apr 2		and the same of th
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:	
	GGAACTTTTC TGATTAAGTG TTCACACGCC AACCATAACA TGTATTCATG CACACAATTG	60
15	TTGCTAAnCT CACTAACAAC ATACGACCAT TTTACTTTCA ATACATATGA TCCGTATAAC	120
	TCGAATTCnC TGCTTATAAA TGACCATTTT GACGTTCACA ATGTTAAACG ATTGGAAATT	180
	TTAAAGTTAG CATGTCCACA TCCGAGCAGT AACTATGCCG TACCATTTGT ATA	233
20	(2) INFORMATION FOR SEQ ID NO: 2709:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	×
25	(D) TOPOLOGY: linear	
-		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709: TTGTACCTAC CAACGAGGAT ACAATGGATG TCACACGAAA ATTGGGATAT AGATGTCCCA	60
	GT	62
35	(2) INFORMATION FOR SEQ ID NO: 2710:	* *
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:	
45	CTTTAAAAAG GATAAATGAT TGAGANAAAA ACCCATTCGA AAATCATGCT GCTCATGCTG	60
	TAGACTTATC GTTTGGACAC TCGCGTAAGA GCGAGCAGTG AAAT	104
	(2) INFORMATION FOR SEQ ID NO: 2711:	2 24
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:	
	GTCCAGAATA TTAATCTGAC ACAACCATTT TAGCnGGTGG ATTAAATATA TACGACCTCA	6
5	CCGCAAGAAT CTCTATTTAA CTTAACCTAT CATGAATAAA CTGGCGCTTG TGATATCATA	120
	TGAAGATTAG CGAAAGATAG C	14:
10	(2) INFORMATION FOR SEQ ID NO: 2712:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:	
20	TGGTATTGAA TAGCAAAATT TTGACACTAT TTGCATACTC AATGATACAT CATATCGTTA	60
	TATGGATTIT TATGGTCATT AATGGTAAGA ATTTGATACG GAATATTGGC AGGTTTGGAA	120
	ATCAAATAAT ATGAGAAATT GTATTAACNA TTAGTCAAGT TAACGCTCAT AAATAGACTC	180
25	ATChCGCGCT ATAACGCTTA CC	202
	(2) INFORMATION FOR SEQ ID NO: 2713:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:	
٠	TTGAACTGTC TAAGACTTGG ACGCTAAATG AATGCGTTGA TACAAACGGT GAATCC	56
40	(2) INFORMATION FOR SEQ ID NO: 2714:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714:	
	CATGACCGAC ATCAGGTGCA AACTCCCTCA TTAATCTGGG AAAACTGTAT CCCGGTAGCT	60

	(2) INFORMATION FOR SEQ ID NO: 2715:		
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10		*	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2715:		
	CCTATAACTA CTCAATATTG CAATTACACA TCCTCACTTT TGTCAATTGT	TTGACAATCn	60
15	AATACACGTT ATGCACAACT CCATTTTAAC GGAATGGAGA GCACATATGG	ACAGTAAATT	, 120
	AAAT		124
	(2) INFORMATION FOR SEQ ID NO: 2716:		
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		***
25			
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:	2	
	GGAATATGTA CTATTATCAT TTGATGTTAT TACTCATATT TTTTGTAATG	AATGCTATCA	60
<i>30</i>	CCTACAAAAA ATTTACTTGA AACAGTAATA ATAATTAATT ACCACAAACC	ATGATAAATT	120
	TAATANCTAA TCTAAAATAT CGCATGTTCA NAGCCACAAG ATATAACGCG	TTCCGTAGAT	180
35	GGAACTAGAT AGTATAAGGC GCCGTGGAGC CTGGCCT		217
00	(2) INFORMATION FOR SEQ ID NO: 2717:	•	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	÷ .	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:		· .
	ATGACATACG CGCATATACA TGCTATCCCG AACTAATATT GATGCGTATT	ATGTAATTGG	60
	AGCGAACACT CA	·	72
50	(2) INFORMATION FOR SEQ ID NO: 2718:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:	
	CATATCATCA CTATATCCAT TGCGTAATAG TGATGATATT GATTGGCATA ATGGTATATG	60
10	GCAGATACGA TAACATAACN AACACCTCGG ATAATTGCTA TTAGCTGCGA AGTTATCGTG	120
	CCTGATTTAA CGATGTAGA	139
	(2) INFORMATION FOR SEQ ID NO: 2719:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(B) Toronosi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:	
25	CTCTATCATA TCTAGCCATA TGCATGAGAT TATCGTTTAT CTCGACACGC TCTTAAAAGG	60
	CGACACCGGC ATATGATGT	79
	(2) INFORMATION FOR SEQ ID NO: 2720:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• 1.
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:	
40	CAATCACAAT TGAAATTACA CAAATACAGC CCATTGCATG ACACAGACCA ATC	53
40	(2) INFORMATION FOR SEQ ID NO: 2721:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:	
	CGCCCGAGGC TACCATTTTA CCATAAAGAC CGGTCTAAAT CCTTCCGGTT TCCATGGGCC	
		60
55	ATTTGG	66

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•	() (*)	:
,	(D) TOPOLOGY: linear		9	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2722:	may y later, metale series, participant decircle, p dec. 11. 15	
	THECTEGEGG AAAATGACCE AGAGEGETGE CGGCACCTG	r cctacgagtt	GCATGATAAA	60
	GAAGACAGTC ATAAGTGCGG CGACGATATC ATGCCCCGCC	G CCCACCGGAA	GGAGCTGACT	120
15	GGGTTGAAGG CTCTCAAGGG CATCGGTCGA CGCTCTCCC	T TATGCGACT	· · ·	169
	(2) INFORMATION FOR SEQ ID NO: 2723:			
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	* *	* * * * * * * * * * * * * * * * * * * *	
	(D) TOPOLOGY: linear		*	1)(1
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2723:	*	
	CCGGGCCAAG CTGGTGATCA CCGATGTGGA GCGCCAACA	T CGCATCGAGG	TAAA	54
30	(2) INFORMATION FOR SEQ ID NO: 2724:		*	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		-	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2724:		
40	ATCGGTGATC ACCAGCTTGG CCCGGGACAA CTGCAGAGCC	•	ATTC	54
	(2) INFORMATION FOR SEQ ID NO: 2725:	• •		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
50			74°C	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	2725:		*
	AAAACCATTG TCCACCTTTA GAAAGCTTTT GTTTTGGGA	A TACCTAAACC	GTGGTTAATG	60
55	• .		•	

	(2) INFORMATION FOR SEQ ID NO: 2726:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:	
	TTTAGGCCCT GTAACnGnTT GCCGnTTGGn CCGTGTGTAT ATCGGGGGAA	50
15	(2) INFORMATION FOR SEQ ID NO: 2727:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:	
	GGATCATTAA ACGTGTATCA CCATCCAGTT TGCAAGACGG ATAAACTGCT GCAACG	56
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2728:	
	ACCCATGGAG AATTAAATTT AAAAACCGTA TTCCGGGTGG ATGCTGGGTG GGTAAGTTGG	60
40	CCATACTGGG	70
	(2) INFORMATION FOR SEQ ID NO: 2729:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:	
	ACCACCTTCC CCAATAAGCT GGCCTAAAGC CCCATAATGG GCCATGGTGC GGCC	54
56		

ź.,

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:	
	TGTTTGGGGA CCTTAAATGG TTCCAAATTC CAACCACCCA CCAAAAGAAT TCCAGTTTCC	60
	AATTAAGCCA GCCA	74
15	(2) INFORMATION FOR SEQ ID NO: 2731:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731:	
	AAGTTGGGGA TTAAGGCCAG TTATGGAAAG GATGGATGGT CCATTTGGGC TTATTAGAAG	60
	AGCATT	66
30	(2) INFORMATION FOR SEQ ID NO: 2732:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:	
40	TTTGnAAAAG CCnGTAAGAG TATTTGATTT TGTTGGAGGC CAAACCAGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2733:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:	
	AGTACCAGCG GACAATTCGG ACCCAACTTG GCAATTTGHG GTTTTGGACC AGGAAATAAA	60

	(2) INFORMATION FOR SEQ ID NO: 2734:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:	
	CCAGGCTGGC AGTTTTCTA AAATGGTGGT AGGAAAATTA nCCAAACCAT TTAGGATGGC	60
15	ATGGTCTTCC ACGGATGGCG GCCGTTAACC CCAAAAAAGG CCATTCCATT	111
	(2) INFORMATION FOR SEQ ID NO: 2735:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:	
	CGTATGGGAT GGCCATTCTG ATGACACACA ACGGTTAGGT TAGCAACGTT GTCAAA	56
30	(2) INFORMATION FOR SEQ ID NO: 2736:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2736:	
40	CAATCCGGGT GTGCGGGCGT GTGTACAAGA CCCGGGACGA TTACCGACAT	50
	(2) INFORMATION FOR SEQ ID NO: 2737:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2737:	
	TAACATTTAT TGTGGAGAAA GTnAGGTATC GTGGTAGTGA GGATTGTGTT	50
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2738:	
	TAAATTTAAA CCCGTCCCGG TTTCCCAAAT TTGGA	ATTTT TTGGAACCCC TGT	53
	(2) INFORMATION FOR SEQ ID NO: 2739:	and the second s	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		*
20	(b) Torobosi: Timear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2739:	
	ATACCCACCT TGGATTCTTA ATACCCCAAA AAGGC	CGGGG CAACTTGGCT TAAAAAACTG	60
25	GCTTGTTTAA ATTGGATTTC CGGCT		85
	(2) INFORMATION FOR SEQ ID NO: 2740:		
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
35 ·			
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2740:	
	GGAAAGTTTA GTAGTTTAGA GTCGAAAAAT TAGTT	TTCTA GTGTAACGAA TCCGGACCCA	60
40	AATTTTTTC	(A)	70
	(2) INFORMATION FOR SEQ ID NO: 2741:		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		•
50		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2741:	ž.
	CGCGCCAATT TACCTGGCGC AGCAGACGCT CAACG	AGGAG CACGGCAGCT GCG	53

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:	
	TGAAGAAATC GCACACATA TCGAACGCAG ATCGCACATC GAATGCATCA GAATCAGCTC	60
	(2) INFORMATION FOR SEQ ID NO: 2743:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:	
25	TATCACCTCT TTTGCATATT ATTAGAATAT ATAATGATCT TTATAGAAAG GAAAGAAGAA	60
	GAGTTATCAT NGCGATATCG CCCAGCGCGT CGTACACTAT GCCATGAATT ACACAATCAT	120
	GCCTC	125
30	(2) INFORMATION FOR SEQ ID NO: 2744:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:	
40	GAATTTCCCC CGAAACCGGG AAAAATTTTT CCCAACCGGT GGCCTTCCCC CGTTCCCGT	59
	(2) INFORMATION FOR SEQ ID NO: 2745:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:	
	TTTTCCTTAA GTTAGTTTTT TTATTGGGCC AAAACCGGCC CCAGGAATTG A	51
55		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746:	
	TAATTTGGTC ATAATGTTGT TTCAGATGAA ATGCTAACAA TACACTGATT ACAGT	55
	(2) INFORMATION FOR SEQ ID NO: 2747:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:	
25	ATGGTGGAAT GGGATTTAGG TGGATGGCCC CCCCAACCAG CCGGTCCTTT TTAAGGAACT	60
25	TTGT.	64
	(2) INFORMATION FOR SEQ ID NO: 2748:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:	
	AACAAGAGTT ACATTGGTTG TGGAAATCAT CGGTTTTAAT TAGTCCAAAA GGATGGATTC	60
40	AATCGGTAGG GGGGTAAG	78
	(2) INFORMATION FOR SEQ ID NO: 2749:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:	
	GCAAGTGGCG GAGTCACACT TATAGACAAG AAGTACGACA TCTTGTATGT GGTG	54
55		

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
			(¥)	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2750:	÷	
	TATTTAGATT CAAAGCATCA AATTGGTTTC GTACCC	TTTT GCACATCGGT	TGGGATAA	56
	(2) INFORMATION FOR SEQ ID NO: 2751:	•		
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			· ·
20		. 9	7	
	(xi) SEQUENCE DESCRIPTION: SEQ ID 1	NO: 2751:		
	GGAAAACCCC CCAAATTTTC CCCCCCGTT GGGAAA	AGAG TTCCCAAAGT	TGGAATTAGT	60
25	TCCCAAACCC GGGAGTTCC			79
	(2) INFORMATION FOR SEQ ID NO: 2752:			
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*		
35				
	(xi) SEQUENCE DESCRIPTION: SEQ ID N	NO: 2752:		
	AGAACCGAGA GATAGTGCCG AGAGAGCGAG AGGTTT	AAT AGAGATGTTT	GGCCGTACTA	60
40	GTTAGCCG	*	** .	68
	(2) INFORMATION FOR SEQ ID NO: 2753:		•	
45 :	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		,	
50				
	(xi) SEQUENCE DESCRIPTION: SEQ ID N	O: 2753:		
	ATAATCTATG GGGGGACCGT CTGGTAAGGA ACCTGGT	TGC CCTGCCAATG	AAGCCACCCT	60
55				

	(2) Information for day in No. 2.34.	-
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:	·-
<u>;</u> =	ACAAAGGTTT TACGCCCAAA TTGTTCACTG GCTAACTGGG CGATGGTTAG TATTGGCAGC	60
15	GCAAAAGTGG CAGGGG	76
	(2) INFORMATION FOR SEQ ID NO: 2755:	0
	(i) SEQUENCE CHARACTERISTICS:	. •
20	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2755:	
	ACCTCAGGGA CAATTAAAAG TTTTTCTTCG GAATGAATGA CAACAACAAA T	51
30	(2) INFORMATION FOR SEQ ID NO: 2756:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:	
40	ACGTATTCCC TCGTTCTTAG GTCTTCTAAA CATAGGTGAC TTTTTGGTCG	50
	(2) INFORMATION FOR SEQ ID NO: 2757:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	
	(B) TYPE: nucleic acid- (C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:	
	AAATGCTTCG TATTAACGCC TATTTTAGCT CCGTTATAGA CACAACTTAC ACA	53

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 51 base pairs

55

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2758:	
,10	ACACGGCAGC GAATACTCGT TTGGTGAGCC TGTACACATC TAACACGAGA A	-51
	(2) INFORMATION FOR SEQ ID NO: 2759:	,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:	
25	GGGAAAACCA ATTAAGGATT TAAAGGTTNA TTTAAAGGGG CCGCCACCGG GTTGGGGATG	60
	CCCTTTGGGC ACCTTAAGAA AGCCCCGATG GAAAGGGACC GGTTACCTTA ACCGG	115
- 440	(2) INFORMATION FOR SEQ ID NO: 2760:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:	
40	TTTGGCCAGG CCAATTAATT CCTGGTGGCC AATTAAATTT AAGGGGACCT TTGGGGGAAT	60
	AAGGTTTAAA ATTGGAAAAT GGTCCAATTT GGACCTTTTG GCCAATTGGA TTCCCGGCTT	120
	AAAAAGATTT GGACCGGTAA ATCCCTTTTT AAATTACCTC GGGCCANGGC CCAACCAAGC	180
45	CAAACCAATT TAAATCCGCC TGGAAACCAA CCCATAnTTC CTTTACC	227
	(2) INFORMATION FOR SEQ ID NO: 2761:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ACACTATTGT GCCAGCGCAC CTTCGAGGTA TCTTGCATCA CTCAGCTGTT TTTTACTGT	59
	(2) INFORMATION FOR SEQ ID NO: 2762:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
*** · · ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:	
15	TTATCCTGTT CCTAAGCCCG ACGGCTCGGC CACACGATTA ACCTTTAACG CCATCTTGTC	60
	CAACCTGT	68
	(2) INFORMATION FOR SEQ ID NO: 2763:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2763:	. *
30	TGGAAAGTAC CATATAAGTA ATGGTAGTCG TTTCAGAAAG ATATAAATCG TTGGGAAAAG	60
	AAGAAATGAC AMATTAATGT AAATATTTGT TCATGTACAA ATAAATATAA TTTATA	116
•	(2) INFORMATION FOR SEQ ID NO: 2764:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:	7.
45	TTGTTACAGT GGTGTAGCGG ATCGCACGGC CTTCAACTAA GTGGTTCAAT GCTTGATACC	60
	AGTTATGAGT GTTGGTGC	78
	(2) INFORMATION FOR SEQ ID NO: 2765:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2765:	
	ATATATTCGT ATGCACCTTT TGTAAGGCTT TGTAATACGA AAATTATCAC TACAATGATT	60
5	GCTGTAACGA GTAACGACAT ATATGGCACA CCGTTTTTAT TnGTTTTACC AA	112
	(2) INFORMATION FOR SEQ ID NO: 2766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:	
•	TATTGAAGAT TTTTTCGAAG ATAAAGGTGA CACATATTCA TGTCATGTTT AATATCGTTA	60
20	CCTTACGTAA CCATATAAGA CTGTAACTTG TGTCATATCA TTCGTAGAAC nTTTGGAAAT	120
	GAT	123
25	(2) INFORMATION FOR SEQ ID NO: 2767:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:	
35	GTCCGCGCCA CGGAATGGCC CACGGGACGA TAAGTGAGGG CACCGACGGC CGAACCCAAG	60
•	(2) INFORMATION FOR SEQ ID NO: 2768:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:	
	GTACGCGGAG CACGAATTCC GCGGATCTGG GAGCATCTCT AGGTAAnTTT	-50
50	(2) INFORMATION FOR SEQ ID NO: 2769:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:	
5	CTTAGGTAGC TCAGTGTGTT ATTGAGAGGC CTGTTGGCAG GCCCCGGACG ATC	53
	(2) INFORMATION FOR SEQ ID NO: 2770:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	The same of the sa
* *	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) 10102001. 111001	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:	•
	AAATTGATAG CGTGCACAAA CCAGGTCCAT CCACGAACAT GCCAATCCAG CCCAGC	GAAGT 60
	AATTGCCCG	69.
20	(2) INFORMATION FOR SEQ ID NO: 2771:	•
	(i) SEQUENCE CHARACTERISTICS:	.(:
	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	4
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:	
30		
	ACGATCATCT GGATGGATAT ACAGAACAGT GTGATTGTAC GTGGTGGGGA AA	52
	(2) INFORMATION FOR SEQ ID NO: 2772:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:	
45	TTAACAGTAT GATATTATCA CACGTGAATA GGATATGCCA ACACTGGCAT CGTTG	GGGAT 60
-	AGCGTAATAC	70
	(2) INFORMATION FOR SEQ ID NO: 2773:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 67 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(C) SINENDEDIESS: GOUDIC	•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:	
_	AACATTGTAT TCGTGATTAA GACTTCGATC GGTTCAGTAT TCGGCAGATC CACATGTGAC	60
5	CATGCTT	67
	(2) INFORMATION FOR SEQ ID NO: 2774:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:	
	CACCCTTGTG ATATCACATT TGTATGTGTT AAGAGGGAGC CCCTTTCCCG ATCAACTGGC	60
20	GATAAAAACA GTTGAnAAGT GGGCGGGGT TATTATTTCT GATGACGGCG GGGTTTTTTC	120
	(2) INFORMATION FOR SEQ ID NO: 2775:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:	
	AACCGTTGCA GGTNAAGCTG GGCNCACCAT TCTTCTCTAT TAATGGTTCA	Ś0
35	(2) INFORMATION FOR SEQ ID NO: 2776:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	*	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:	
	CATGTACGGT GTCCACACAA GAAGTATTTA GGTGGTTGTT CCCGGATTTA ACCTGGC	57
	(2) INFORMATION FOR SEQ ID NO: 2777:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:	
5	AACGACCCCG GGTTCCACCG GGGTCCATTA AGCCAAGGGC CAGGGGACCC C	51
	(2) INFORMATION FOR SEQ ID NO: 2778:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:	
	TTGTTCCGGC CTAAAAAATT TAAATTGAAC CCAAGGGTTG CCTTGGGTTG GGTAATCCAT	60
	TTTTTGAATA AACCTTTGnC CCTAATGAAT TTTTCCGCCA TTTAAAGGGT GTCCGCCAAT	120
20	cccc	124
	(2) INFORMATION FOR SEQ ID NO: 2779:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:	
	GTAAATTTGG GAATTACCGG AAAATTAAGG AAAGGCCAGT AAGGGGTTTC CAGGCCAA	58
35	(2) INFORMATION FOR SEQ ID NO: 2780:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:	
	GCACTCCAGC CTGAGCACCA GGGTGAGACC CTGTCTCAAG AACAAAAACA nCAACAnCAA	60
	AAAACTTGTT CAAAACTCAC TTCCTGCAGT AATCTTTCCT TGAACAAACT CACCCTCTAA	120
50	TTCCCACCTG CAATTGTGTG TAGAAATCCA TTCTCGTGTG TAATTTTGGG CTTATATGCA	180
	CACATTGAAA ATCCAAGAGC CAGAAAGAGC TCTAAGGAAT TATCCAGTCC AGCTCTGTGC	240

5	TGGCCACCCT G (2) INFORMATION FOR SEQ ID NO: 2781:	· 371
5	(2) INFORMATION FOR SEO ID NO: 2781:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:	
-	GGGGTTGCCA AAGGGGTGTT AAATTTAAGT CCGATGAAAA TTAAGNAAAA AAATCCCATT	60
	TTCCCTTCCG GGTCCGTTGT TGGGGCCTTA ATTTCCCGCC AATCCAAGTT TGGTGAATGA	120
20	AATTAATTAC CGT	133
•	(2) INFORMATION FOR SEQ ID NO: 2782:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:	
	GTTCAAGTTG ACGCTGGATC ATCTGGTACA CACGTATCCT GCATACTATA GATGTCAT	58
35	(2) INFORMATION FOR SEQ ID NO: 2783:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:	
<i>45</i> : (GCTAATTATA GGCCGTCAGG CATTACGnGA TCGAATCTGG CAACTCACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2784:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:	
* 1	GCCnCnCTCT GTGACACTGT GTATATACAC CCGCGGGAAT ATCTCCAACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2785:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
. ·	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:	
	CTTTGTCTGA CATATTGGGG CAGTGATTTT TGGGACGGTT CTACATGTCG AGTACTTTAG	60
	TCAGAGTTGT GAGTAGCGGA CGGGTnTACT TGATATACCC TTAATGTGTA T	111
20	(2) INFORMATION FOR SEQ ID NO: 2786:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786:	•
30	CATGATGATA CTTGCATGTA CGTTGTACGT GAACGTACAG TTACGTTGTC	- 50
	(2) INFORMATION FOR SEQ ID NO: 2787:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:	
	TCAGCAAGTA GTAAGGATAT CAAACTATGA TCTATTTGAT GTTATGCCAT AA	52
45	(2) INFORMATION FOR SEQ ID NO: 2788:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGCA	_
		64
5	(2) INFORMATION FOR SEQ ID NO: 2789:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:	
	TGAGAGAAGT CACAGTCGCC AGCGGCAAAG AACCCGnnAA GATGTGnGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2790:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:	
	CAGTGTATGG AATCTTGTTT GAGTGTGAGA GTCAAAGACT TGGTGATTGA ATGGAAAAAT	60
30	TGAA	64
	(2) INFORMATION FOR SEQ ID NO: 2791:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:	
	ACAAnGGGTG AAGTTCTCCC ACATGCTGTA TACCGTGGGA TTATTTTTAA	50
45	(2) INFORMATION FOR SEQ ID NO: 2792:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATTCCTATTC AACAACGGAT ACATAATCIT TTATATCTTC CTTCTAGTCA TATGATACIG	60 -
	GAATAAGTGA TATTTCTTAT AAT	83
5 .	(2) INFORMATION FOR SEQ ID NO: 2793:	
er angal (commer - graper	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:	
	CATATGTCAT CGTACGTAAT CATCGATGAA ATATCAACAT CTCGACTTAA TAGGTCAACA	60
	AGAT	64
20	(2) INFORMATION FOR SEQ ID NO: 2794:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2794:	
	CCCTACTCCG CGCAATAACC GCATTACCAG ATGCGCTTCC ACTGAGGAAC GACGGAT	. 57
	(2) INFORMATION FOR SEQ ID NO: 2795: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:	
	AGATAAAGTG TCATCTATAT CCATCTATCA ATATAGATAT GTTTACGGCC GATTTCAATC	60
45	CGCAA	65
	(2) INFORMATION FOR SEQ ID NO: 2796:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:	
_	TATACGCCTC ATTACACCCA ATTGGACCCT TTACGTATGG AGTACATTAT AGAATCGA	58
5	(2) INFORMATION FOR SEQ ID NO: 2797:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
		÷ .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:	
2	ngctaagaat ttataagagg tttcggcaga tatatatacg caagtatctg	- 50
	(2) INFORMATION FOR SEQ ID NO: 2798:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2798: AAGCAGTCTT TCACAAAAAG TGAATAATCA CTAGTTCATT AATTTGCATT TGAACCTTCA	60
30	TATAATGCAT ATTACTTAAT GTACAAGCAA AGATGTATTT ACCTATCAAA GAATTTNC	118
	(2) INFORMATION FOR SEQ ID NO: 2799:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:	
	CCATAGAACC TGTGAATACC TATACATATC ATACTGTGGA ATTCGTTACG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2800:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	CCAATTCAGA CTGTTATTCT CTCTTCGTGA TAACC	CGTGA TGTTTGTCTG C	51
	(2) INFORMATION FOR SEQ ID NO: 2801:		
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2801:	· ¥
15	GGGGGNGCAT ACCGCACCGA AGCATCAGAC GATGT	GAGCG ACCTACCTCC	50
13,	(2) INFORMATION FOR SEQ ID NO: 2802:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs		**
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	*	•
	(D) TOPOLOGY: linear	* * * * * * * * * * * * * * * * * * *	
		4	. s*
25 .	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2802:	
	CCGTAGCGCA CATATGACGA GACCAAGGAT AACGT	GCAAn GnCATATTGT	50
	(2) INFORMATION FOR SEQ ID NO: 2803:		*
30	(i) SEQUENCE CHARACTERISTICS:	Y	
	(A) LENGTH: 50 base pairs		
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		•
35			
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO: 2803:	
40	CACGTCATGA ACGTGCATTC AACACAATCA TTTAC	GAGAT GGACCAAGAC	50
	(2) INFORMATION FOR SEQ ID NO: 2804:	¥	
	(i) SEQUENCE CHARACTERISTICS:	-4	
	(A) LENGTH: 126 base pairs		· . • · · ·
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	اد پورمي سماه آها. وي	
•			
50	(xi) SEQUENCE DESCRIPTION: SEQ II	NO: 2804:	
	TATGGTGTTT ATTTTAGCGC TMGTTGTGCT TTGTC	TTCAG CATCTATAAC CTAGTGCGAT	60
		•	

*55*_.

	CTATTG	126
	(2) INFORMATION FOR SEQ ID NO: 2805:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.)>
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:	
	AAAAGCGCAT ATGGTGTTTT TCTCATATCA CTCCAGGACT CAGCAGCTGG AAGGAGTTAA	60
15	GAAGTAATAA GGTGCCACCC TAAATCCA	88
	(2) INFORMATION FOR SEQ ID NO: 2806:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:	
	TGGATCCGGT ACCAAATAGG GACTACCGGG AATGTCCCGG GGGGCCTAAT GCCGAATGGG	60
30	GCAACG	.66
	(2) INFORMATION FOR SEQ ID NO: 2807:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:	
	CCCGCTAACG TGGGGAAAGT TTTGAAGTTA AGAAGGAATG GATTCCTAAC GGGGCGGGGT	60
45	CCAAAC	66
	(2) INFORMATION FOR SEQ ID NO: 2808:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

ACAAAGCAGT ACTGAACTGG TTTCGTTGGA GCCCGTGTTG CTGTTTATTC ACGGCA (2) INFORMATION FOR SEQ ID NO: 2809: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809: AGGGGGGGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear	
(i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809: AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENOTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 72 base pairs (B) TYPE: nucleic acid	56
(Ā) LENOTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809: AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG. CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESC CHARACTERISTICS: (A) LENOTH: 72 base pairs (B) TYPE: nucleic acid	*
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809: AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) (1) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA TCC (2) (1) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	*
(2) INFORMATION FOR SEQ ID NO: 2810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	63
(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810: TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG (2) INFORMATION FOR SEQ ID NO: 2811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	58
(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811: AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT (2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(2) INFORMATION FOR SEQ ID NO: 2812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	-58
(A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷ .

	CATCATTAAG GCAAAAACTT TCACAAAGTC ATGAGGCGCA AAAGGTATTA TTATAACACA	60
	TCCCGCGTTG GG	72
5	(2) INFORMATION FOR SEQ ID NO: 2813:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:	,
	CCATTTAAAG CGGTACGGGG CTTGGTTCAG GAACGTCGTT AGACAAATTC GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2814:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2814:	
	TAGTACCCAA TTTCCAGTCG AACCAGGATG GGACCAGAAG CCAAACCAAC GTT	53
30	(2) INFORMATION FOR SEQ ID NO: 2815:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
44	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:	
40	GAAAAAAAGG CCTTGTTTAC CAAAGGGGCC AATTTTTTCG GTTCAAGGTC CAAACCTACC	60
	TT	62
45	(2) INFORMATION FOR SEQ ID NO: 2816:	, - -
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTGAATGAC GCCGAAATCC CATCTGAATT CATGGGATTT TCCACTTTCA		50
	(2) INFORMATION FOR SEQ ID NO: 2817:		
5	(i) SEQUENCE CHARACTERISTICS:		*
	(A) LENGTH: 51 base pairs	,	
	(B) TYPE: nucleic acid	,	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10			
10		•	
	المناز الأراب المركزي المرازي المناب المناب المناز المرازي المرازي المرازي المرازي المرازي المرازي المرازي		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:		
15	CGTTACTAAA GCTACATAGT GCGTCATTTA AGATTATAGC AAGTAGCATA T	•	51
	(2) INFORMATION FOR SEQ ID NO: 2818:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 54 base pairs		
	(B) TYPE: nucleic acid		
20	(C) STRANDEDNESS: double		
	• • • • • • • • • • • • • • • • • • • •	**	
	(D) TOPOLOGY: linear		
		•	
	1		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:		
	CATTCACCAT AATATTCATT GTTCCATTAG CATATCAGGC ATGTCACGTG CACA		54
	(2) INFORMATION FOR SEQ ID NO: 2819:		
30	(i) SEQUENCE CHARACTERISTICS:	4.2	
	(A) LENGTH: 50 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
35			
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:		
40	GTGTATCAAA TGAGCATGTT nCAATGGTTC AnCATGGCGT TTATGGCACT		50
	(2) INFORMATION FOR SEQ ID NO: 2820:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 50 base pairs		
45	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		•
	(D) TOPOLOGY: linear		
	(b) Torobott Linear	•	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:		
	ACAATTGCGG CTGCTCATTG TGAGCACGAC TTTATCATGG TTGGGTTCAG		50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:	
10	CAGTAGTACG TAAAAATGAA TCACTTGAAG ATGCGTACGT AGATTTTAAA CGTCAGTTCT	60
	AAAAAGTGGA CAATCCAAGA GACGTAACGG AATTTnCGAA AA	102
15	(2) INFORMATION FOR SEQ ID NO: 2822:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Torobodi. Illiedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:	
25	GAGTACTTAA TCCGGCACCG TTTACTTCTG GGGGCATCGA CTAAGTGGGG CGGCC	55
	(2) INFORMATION FOR SEQ ID NO: 2823:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:	
	ATTGGTTTCT CATAAACACT TTTCTATGAA TTTGTATGTA TTTGTTTATT AAAATCTCTA	60
40	ATTCTTATGG A	71
	(2) INFORMATION FOR SEQ ID NO: 2824:	. •
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:	
	CCATTGAGTG TGAGTATATC ATCGATCAAT ATGCAACATT TATCAGGTGC ATGTTGCTTA	60

	TGGATAATTG AACA	134
	(2) INFORMATION FOR SEQ ID NO: 2825:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2825:	
15	CCAGAATGAT GAGCTACAGG ATCAGCCCAG ATATGCAGGT AAACGGGCCA ACCATTG	57
	(2) INFORMATION FOR SEQ ID NO: 2826:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
	(b) 10102001. 12110112	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:	
	CAATAATGCT GAACAGCAAC GCATCTCATT CTAAAATCGC TCAGAATCAC ATCCCATGCA	60
30	CACATAATAA GTGGCACTTA GCTTAAAAT	89
50	(2) INFORMATION FOR SEQ ID NO: 2827:	*
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	* * * * * * * * * * * * * * * * * * * *	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:	•
	CGGATTAGTG GTGTAAACTG GGTGACCCAT ACCACACCTC GCGTGTTGTG AAAAAAGGAC	60
	TTAA	64
45	(2) INFORMATION FOR SEQ ID NO: 2828:	*
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	TATACAGAAA ACAGCGTGCC GTTATCCATT ATCACATGAC ATATGTAGTC C	51
	(2) INFORMATION FOR SEQ ID NO: 2829:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:	•
15	GAGATACGGT CTTCGTATAT GATATGTGCA TATTTAGATA GTCATTTATG AGAGAACGTG	60
,,,	GACGTGAG	68
	(2) INFORMATION FOR SEQ ID NO: 2830:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830:	
	TGATGATTGT TTATGATACG ATATGTAAAT GATAATCATC CAGGAGGTCT AGCATGGT	58
30	(2) INFORMATION FOR SEQ ID NO: 2831:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:	
	CCTAACAAAC ATAATTAAAC CCATAAATGC ATCCAATGCG GTTAAACCAT GAAA	54
	(2) INFORMATION FOR SEQ ID NO: 2832:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:	

	(2) INFORMATION FOR SEQ ID NO: 2833:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:	
	GTCTGCTACC CTTTCAGAGC AACATGCTGA GTGTATAATG CCGTGTATAG GGGACAATGC	60
15	CATTCACTA	69
	(2) INFORMATION FOR SEQ ID NO: 2834:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2834:	
2	AACACCAGCT GGTAAGTATC ACGTTACATT TTGTGTCTTC ATGATTAATA AAAAC	55
	(2) INFORMATION FOR SEQ ID NO: 2835:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
00		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:	
40	AGAGCTTGGA TGTCGTTCGT AATTGATGCT CTAGCTCCAT GGGGCCCATG	50
40	(2) INFORMATION FOR SEQ ID NO: 2836:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:	
	TTTCGTCACT ATTGCTCATG CATAGACATT TGCAATACCG GCAAATGACG ATGGNATATG	60

	TTAATGGTCA ATACAGGG	138
	(2) INFORMATION FOR SEQ ID NO: 2837:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
,,,	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:	
15	GTTGGCAACT TCAGTCGCTA CTTTAACGCA TCTCACAGTC CTCCTCCCAA AGAGAACGTA	60
	T	61
	(2) INFORMATION FOR SEQ ID NO: 2838:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:	
	ACGTGAATCC CGTGAGGCCA ACAGTGATTT GGATAATTAC ATGGATGTTT GACTAATGGT	60
30	CATTCACACC CAGATCAG	78
	(2) INFORMATION FOR SEQ ID NO: 2839:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:	
	ACTTAAAATC TCCTCTTGCC TAACTTCCAC ATTCTTATCG ATATGAATAC ACCATACGTT	60
45	TTATAGATAA GTTGATGTTG ATGCATATGT	90
	(2) INFORMATION FOR SEQ ID NO: 2840:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:	
_	TATATTTAGT CTGTTATACA AGGTGTATCA CAGCGGTAAT ATGCCTCTAC ATGGCCATAT	60
5	G	61
	(2) INFORMATION FOR SEQ ID NO: 2841:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	a man and market of the second
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2841:	
	GGGCCCGGC GGCAGGGAGG AAGGGGGCCAA GGGCGGCGCC AAGACCACGA CCGGCACC	58
20	(2) INFORMATION FOR SEQ ID NO: 2842:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842:	
30	TGTACAGGTG CAGTTAGACC GCCTGACGGA ACGAGACGTG CAATTGCCAG CAACGCACAA	60
35	(2) INFORMATION FOR SEQ ID NO: 2843: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	٠
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:	
	AAACATGTGA AGTGATCGAG GTATGGACGG AGTAATGATC GCACAAGACA TAGCATCCCC	60
45	GT (2) INFORMATION FOR SEQ ID NO: 2844:	62
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(AL) Objected backer recorded to the recorded to	
_	ACGATTTAGT TTGAATTTCT ATTAGGGTTT GGTGATTCTA CTACTTCTGA TA	52
5	(2) INFORMATION FOR SEQ ID NO: 2845:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
	GATTATCACA ATTATGCAAA GTTGTCTAAT CGTTAGACCA ATTTCTGTTC AAACACCACA	60
	ATC	63
20	(2) INFORMATION FOR SEQ ID NO: 2846:	
. 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
23	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2846:	
30	CGTTATATAA GANCGACATG GAAGCATGAT GAAATATTGA ATACATCATA	50
	(2) INFORMATION FOR SEQ ID NO: 2847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:	
	CCACAGGTGC ATCCGCCTGG TATGGAGCCG GCCAGTCTTC ACTGCTTTCA C	51
45	(2) INFORMATION FOR SEQ ID NO: 2848:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAAACTGTCC CAAGCTGTTT TTATTTAGAG CAACCAATCC AATTTAAACC CCCCACCATT	60
	ATTITIAAATA ATACCATTCC AGCGAAAGCC CTTTCCANGG TTTTGGAATA TAA	113
5	(2) INFORMATION FOR SEQ ID NO: 2849:	
V	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
• 2		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:	
	CATCTGGAAC TTTTTAATTC CAGAAGGGTT CCAGAAGGTT TCGAAATCCC TCCTAATGGG	60
	CTCCATTAAC GGATTTTAAA TTTTTTAATA ATTTTAGGCC AAAAAATTAA TTTCCAGGAA	120
20	AAGTAAGTTT CCAACCCGGG TAAGAAATTA CChAA	155
	(2) INFORMATION FOR SEQ ID NO: 2850:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:	
	CACAAACTAA CATAGAAGGG CCATCATCAG GTGCTATTAA ATATCTACGC TAGATTGTAA	60
- 35	ATCA	64
	(2) INFORMATION FOR SEQ ID NO: 2851:	-
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	ē
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:	
	AATTATTCAT CAATAGCTCT TTACGATTCA CAAATCTAGG TACTTTTCAG ATCT	54
	(2) INFORMATION FOR SEQ ID NO: 2852:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:	
	AAGCCCCTTT AAACTGGGCC TTTAAGGAAC GGTGGCGAAA ATCCCCAAAT TCCGGGCA	58
5	(2) INFORMATION FOR SEQ ID NO: 2853:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:	
	AAAGGTTTCC ATTCGGTCCC ATTAAGATTT TTTTGGAAAT TCCATGGAAG GATGGTTGGT	60
	CCTTTAGGCC TGGTAGGTTA TCCTTTTTGn AGGTGGTATC CAG	103
20	(2) INFORMATION FOR SEQ ID NO: 2854:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:	
30	GGCCACGGTC ATTCCTCCAA GCCAACCAGT GGACAAGATG GGTGGAAGGC GCAGG	55
	(2) INFORMATION FOR SEQ ID NO: 2855:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:	
	TATTTGGCAT TCAAATAACG TAAACGGATT TTGAAGTAAT TTACATAAAG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2856:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:	
	ACAATTIGAC AATGACTGGG ATGCTGACAC TTGATATGAA GACAATTGAA GAT	53
5	(2) INFORMATION FOR SEQ ID NO: 2857:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:	,
	AACTGCGTTA CATGCTTTGC TTTTAACTGA ACCCAGAACA ACGGTTTCGG	50
* ,	(2) INFORMATION FOR SEQ ID NO: 2858:	+
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858:	
<i>30</i> ·	CTTTnnTAnC TTCATCTCTA TTATTATTGT CCGAATTACT ACGTGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2859:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859:	
	TCCAGGTCGA ATTTATTGCC AATTAGCCTC CCGGGTTAAA AGGGTGGGTG TCGGGTAAAA	60
	TCGTAC	66
45	(2) INFORMATION_FOR SEQ ID NO: 2860:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTATCCAGT CCCCCGGAGG GGTGACAAAC TTCCACGCCC AGTGGGGGGA CTACCGTTTT	60
	GGACCAAAGC CC	72
5	(2) INFORMATION FOR SEQ ID NO: 2861:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861:	
	AGTGTCGAAC AATTAAAGAT ATTGAGTGAC AGGATTGCTT AAGGGCCGGT CGGAACAG	58
	(2) INFORMATION FOR SEQ ID NO: 2862:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:	
30	TTAGCGGTAA ATCCGAAGAA CTAAGAAGAC GTCAAGAAGG GGATATACGC (2) INFORMATION FOR SEQ ID NO: 2863:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:	
	GCAAAAntga GAGCTCAAnc TGCAnnaAGC AAATCAACGA AAGATTAGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2864:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(2) 2212 4321 22134	
	(vi) SPOUPNCE DESCRIPTION. SPO ID NO 2004	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2864:	

	AGGCGAACGC CAGCAACGCA ACCACTGATC AATG	CTGAGC CAGCTGTAGC	CGCCCAGACG	180
5	GAACAAAATC CGCAGTGGGG GCAAGTGATG CCGG	GCGTGC ANGGCGCTGA	TGnCAGTTCG	240
	TGGCAG			246
10	(2) INFORMATION FOR SEQ ID NO: 2865:			
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid			
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear			. *
			*	
. *	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 2865:		
20	ACAGATGATA CCTCTTGATC ACTTGCCAGA GATC	CGTCTAA GTCGTCCTTG		50
	(2) INFORMATION FOR SEQ ID NO: 2866:	. · · · · · · · · · · · · · · · · · · ·	*	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		- 10	
			0 -0	
30	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO: 2866:		
	AATACCACGC TGACCTTAAT AAGCCATCAT GGGC	GAAATC ATGACCGCAA	. т	51
35	(2) INFORMATION FOR SEQ ID NO: 2867:			• . •
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	.	* + + + + + + + + + + + + + + + + + + +	
40	(D) TOPOLOGY: linear			
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2867:		* o
45	CAACTTGGTA AGTGGTCGTT TTGGGCCCCA CCC	PACCEGT TTGGACCTGG		50
	(2) INFORMATION FOR SEQ ID NO: 2868:			2
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:	
	CCCAACCCGG TTCCGGGCCT TAATTTTTTm CCTTTTAAAG GAAAAAAAGG AAAAACCGGT	60
5	TAATTCCGGC CCAAAAAnCC CGGAAGTTGG AAACCTTTTT TTAATAAAA TAATGGACCG	120
	TCCCAACCTT TGTTGCCAAA AGGTGGCCTA AAGGTTTAAA AAAAACCGTT AAAATCCATG	180
10	GCCAGGATCC AGCCTAAAAT TGAAACCATT ATAATTGATA AAC	223
	(2) INFORMATION FOR SEQ ID NO: 2869:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:	
	TGGACCTTTG GTAATATGAA TTGAATGGTG CTTTGTGGAA ATCGGGAATT CGCCTCGTGC	60
	CTTGTA	66
25	(2) INFORMATION FOR SEQ ID NO: 2870:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	w	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:	,
	AANAGCCANG ATCATGGTAT ATCCATTAAG AGACGAGAAG ATCGATGCCC	50
	(2) INFORMATION FOR SEQ ID NO: 2871:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:	
50	TTATTTGGAC TTACAAGGAG AATAGTCAnT TCTAGGAAAG TGGTGCGAAA GTCACTTACC	. 60
	AATATACGGG GATTATTCAT CCATCGTCGG TCGGTCATAT GATACGGAAT TAACACGCCA	120
	CTCCG	125

, 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872:	
10	CAACACCTGA CGTGTATAGA ACTCATCTCT TCAATAACGT CGCTGTCAGG TTACGAAGTC	60
	GA	62
15	(2) INFORMATION FOR SEQ ID NO: 2873:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2873:	
25	TATACATTCC ATTTAACACC TTAACACATG CAAGTTACTT CCTCCTCAAG CATC	. 54
	(2) INFORMATION FOR SEQ ID NO: 2874:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:	
	GCTGAAAGGA GACTTCTGCA GGTGTGATCA CAAACTGCAC ATCTACACAA GCCATT	56
40	(2) INFORMATION FOR SEQ ID NO: 2875:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:	
	AGCGCGACCG CGAGAAGGGA GGGGGAGCCA GAGCAGCAGC AGGCCCCAGG GCGAAACCCC	60,
	CAAGAGGAGC GAGNAAGAAG GAGGGAAAAGC CCAGCAGGGG CGCCCAGGCC AG	112

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:	
	GNGCGTTNNA NCGGTCGCGT AGAGATGTCG GGTCTGTAGT AGATCTGGGG	50
	(2) INFORMATION FOR SEQ ID NO: 2877:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:	
	ACCTTGACTT TGCAGACGAT GATGCTTTTG GCTGGGATCT TCACCATCTG GCAACTGAAT	60
25	ATGGTTGG	68
	(2) INFORMATION FOR SEQ ID NO: 2878:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:	•
	CTCCACCTGA TGCATGCCCC CATATCAGGA AAATGATAAC CTCGGACACC TTC	53
40	(2) INFORMATION FOR SEQ ID NO: 2879:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:	
	GGGAACTTTG ATCTGCCCTT GAAATCCTGA AAAATGTTTG CAAACGGGAA TGATCTTGTG	60
	CCTTGCTTTG AATGA	75

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
a tragent a record factor of the con-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:	
10		
	AGAGAGGCCG AGATGGCAGA TGAGATTGCC AAGGCTCAGG TCGCTCGGCC TGGTGGCGAC	60
	ACGATCTTCG GGAAGATCAT CCGCAAGAAA TACCAGCCAA AATCATTTTT GAGGATGACC	120
15	GGTGCCTTGC TTTCCATGAC ATTTCCCCTC AAGCACCAAC ACATTTTCTG GTGATACCCA	180
	AGAAACATAT ATCCCAGATT TCTGTGGCAG AAGATGATGA TGAAAGTCTT CTTGGACACT	240
	TAATGATTGT TGGCAAGAAA TGTGCTGCGG ATCTGGGCCT GAATAAGGTT ATCGANGGTG	300
20	GTGANTGAAG TTCAGNGGTG GACATCCGTC TATCACGTTC A	341
	(2) INFORMATION FOR SEQ ID NO: 2881:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2881:	
	GCGGTTACTG TGTAATGGCA TTAAATATGA AACGAGCCGA TGGAGCGTTG	50
35	(2) INFORMATION FOR SEQ ID NO: 2882:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 81 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:	
45	CTCATCATTT GTAGTTGGAA AGGTTTATGT ACATTTGGAA AACACCGACA CATGACGTAT	60
	CTCCATTGCA ATTTACACAA G	81
	(2) INFORMATION FOR SEQ ID NO: 2883:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	v

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:	
5	TITITITIT TITITITIT TITITITIT TITITITIT	60
	TTTTTTTT TTTTTT	77
	(2) INFORMATION FOR SEQ ID NO: 2884:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884:	
20	ACGGTGTGCT TGATGCACTT GGAACTGTGA GTTTGGGTGT GACTTTGCTT TGGCTTGCTT	60
	GCTGAATGTT TTGACTATGC ATTGCGTATA TGACTTGnAG CGCG	104
	(2) INFORMATION FOR SEQ ID NO: 2885:	<i>t</i>
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:	
35	AGCAACGTGT CTGTCAACGT GGTGTCATTG GAAAAGGCGT CATGTATTGn CCGGTGGGAT	60
	TTACGTGTAG TCACACATGT GCCCAATTAT TGTTTTGAGG CCAACTTGAG TAGGTTGATG	120
	GTTATGT	127
40	(2) INFORMATION FOR SEQ ID NO: 2886:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2886:	
	TGAGCGAGTG CTGTGTGAGC GCGAGGTTGT GAGAGTTAGA ACCTTGTGAG C	51
	(2) INFORMATION FOR SEQ ID NO: 2887:	

5	(A) LENGTH: 63 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:	
10	TTGAAACCGC GAACCTGAGT TCTGGTTAAC TACAGTCTGG TATACACATT GAGGGAAACT	60
	TCG	63
	(2) INFORMATION FOR SEQ ID NO: 2888:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2888:	• •
25	AGTANCATAC NCAACTATCT CAGCATACAA TATTGGNCAC CTCGCAGCTT (2) INFORMATION FOR SEQ ID NO: 2889:	50
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:	
	AAANATAATC CCGGTTTTAT CCCCCTACCT AATTAGTGGG AAAAGTACCA ATTGCCAATT	60
40	GGTAAAATAG GTTGCCATAA CGGCCTCCCA AAAGTAAATT CCCTTTTTTG GTTTA (2) INFORMATION FOR SEQ ID NO: 2890:	115
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:	5 0
	AATCGGTCCG TTATACTCTT CATAATATTG TGGCGCAACC ATTTCAACTT TATCTTTTCT	60
<i>FC</i>	TATAAATAGC ATCATCGCAA TAnTAAAGAA TAATATCGGA ATGATTAAAG TAACGATAAG	120

(2) INFORMATION FOR SEQ ID NO: 2891:

5 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:	
	AACACAACAA GTTGTTAAAG ATGCATTTTT ATCACAACAT AAATCTATTG GACGTAAAGC	6
15	TCAAGAAGCA TACTTATCAT ATCGTTTAGA ACAAGAGTAT AGTAAAGATG ATATCTTCCA	12
15	AGTATATCTA AACAAAATTT ACTATTCTGA TGGCGTAACA GGTATTAAAG CTGCTGCTAA	18
	GTATTACTT AATAAAGATT TAAAAGATTT AAACTTAGCG GAAGAAGCTT ATTTAGCCGG	24
20	TTTACCTCAG GTTCCAAACA ACTATAATAT TTATGATCAT CCAAAAGCTG CTGAAGATCG	30
	TAAAAnCACT GTTTTATACT TAATGCATTA TCATAAACGC ATTACAGATA AACAGTGGGA	36
	AGATGCTAAG AAAATCGATT TAAAAGCGAA CTTAGTAAAT	40
25	(2) INFORMATION FOR SEQ ID NO: 2892:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2892: CCTAATTAAA CCTCCATCCA TCCTTTTGAA GGGGGATCTT TAATAAANCC GGAAAGTTTG	6
	GGGGAAAAAT CCTCCATCCT TTGAAGGGGG GGGCTTTCCA ATGGCCTTTA AGAATGGCCT	12
10	TTTCCAAGCC AACTTTAAT TCCCCCGGT	14
15	(2) INFORMATION FOR SEQ ID NO: 2893: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:	
	THE RESIDENCE OF THE PROPERTY	6

	TTATGTTAGT				130
	(2) INFORMATION FOR SEQ ID NO: 2894:				
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear				
10	(b) TOPOLOGI: Timear				
4					
	(xi) SEQUENCE DESCRIPTION: SEQ 1	D NO: 2894:			
15	GATGAGACCT GAATTGATTG CAACCCAAAT CGGC	ATATGC AAATTC	CATT AAAG	TTGGTT	60
	CAACG			•	65
	(2) INFORMATION FOR SEQ ID NO: 2895:	*		•. •	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 102 base pairs(B) TYPE: nucleic acid		•		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		~		
25					
	(xi) SEQUENCE DESCRIPTION: SEQ	1			
30	CGCACAACAC ATTTAGCGAC TCAGATGTCG CGCC		atgge gtgt	CTACAC	102
	(2) INFORMATION FOR SEQ ID NO: 2896:				,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear				*
40 ⁻					. •
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 2896:			* ()
	ATTAAGTGAT GGGCTAATGT TTACGCCCCA ACC	AAGGTT TCCAA	AGAGC CCTT	GTTGGG	60
45	CCTGTGTTG				69
	(2) INFORMATION FOR SEQ ID NO: 2897:	*			
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		•		

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:	
	ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT	60
5	TGGGAAGGGT ATTGGTTCCC	80
	(2) INFORMATION FOR SEQ ID NO: 2898:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:	
	CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA	53
20	(2) INFORMATION FOR SEQ ID NO: 2899:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899: ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A	
	(2) INFORMATION FOR SEQ ID NO: 2900:	51
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900:	
	AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG	52
45	(2) INFORMATION FOR SEQ ID NO: 2901:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	••	

	GGTACTGACA GAGGGACAAG GTGGAAAGGn TGCCAATGTA AGAATACGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2902:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs	. 📈
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:	
15	TGTCTGGAAT TCAGGTGAAT TGATGCGGAG ATTTAGGTGA TTAAGGAGTG TTGATTATGA	60
	AGATGACCAC TT	72
	(2) INFORMATION FOR SEQ ID NO: 2903:	W.
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
- 25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:	*
30	CATGCCAAAG CAGTAGGCAA GCCGCTTAGC AAGCCAAAAA CGTCAGCCCA	50
	(2) INFORMATION FOR SEQ ID NO: 2904:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) lotoboot. Illions	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:	
	TTGATGTTAC CTGATCGCAA TCTTGACCAC CTGGCAGGGT CTCATTGTTG GGTATCGA	58
45	(2) INFORMATION FOR SEQ ID NO: 2905:	· .
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(b) IOFOBOOT: IIMCOL	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:	

	GCGGTCTAT	69
	(2) INFORMATION FOR SEQ ID NO: 2906:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(D) TOPOLOGI: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:	* *
15	ATTCCATTAG GTTCAATTAA AAATTAACGG GGTTATGGTT CCGGTAATTC GGG	53
	(2) INFORMATION FOR SEQ ID NO: 2907:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:	
	AAAGCTAAGA AAGGAGGATT AGCTGGTAGT GGAGGAATGT TAAGTGAGGC TGGTGAT	57
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 2908:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2908:	
40	GGGAATGGCG CATGAACGTG CACATCAAAT GACACTGCAG GAAATCAATT AGCACGGATA	60
	TGGCATAAAG ACAATGGTAA AAGTGG	86
45	(2) INFORMATION FOR SEQ ID NO: 2909:	
70	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	•
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with groupings peggetomion, one to ve seed	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:	

(2) INFORMATION FOR SEQ ID NO: 2910:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
10	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:
	GAATTTGTTC CGAGGTATCG AGGACTACGC TTATAAGGTG CTTACAGATA CATTTAnCAT 60
15	TAATGGCGTG TGCTGCTGTA TGGGTTATAC TGTTCACAGG TTTAAGAGA 109
	(2) INFORMATION FOR SEQ ID NO: 2911:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:
30 35	TTGTCCCCAT AGGGAGAAAT AATTCCGCCT GGGCAAAACC AAATCCACGA GCTTCTAAGG (2) INFORMATION FOR SEQ ID NO: 2912: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:
	TAGATGTATC CAGCTGACAT TAGCTATTGG TAAGGTAACG GCTTACCAGG CAACG 55 (2) INFORMATION FOR SEQ ID NO: 2913:
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
50	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:
55	GCCATGAGGC CCACCCATCC ATGTTTATGG ATGGTGGATT GGGGAATTAC TTGTTTCAAA 60

	TCA	123
	(2) INFORMATION FOR SEQ ID NO: 2914:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(wi) CROVENCE DECOMPOSE OF TO MA	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:	
15	ATCCGTAATT CTGGCCTACC AAGGGTTTAG GCCAATGGGC CATTCTTTTA TTTAACCC (2) INFORMATION FOR SEQ ID NO: 2915:	58
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:	
	TGGTGCGACA GTGGTAGGCT TTTTACGGTn TGCnGGCGAG AGTTCTGTAG	50
30	(2) INFORMATION FOR SEQ ID NO: 2916: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:	
40	CTGTTACGCT ATGCCCCCCA GTTGTATGTT GAGTGGAATC GTGTTTTTCG ACCTGCCTTT	60
	GCTTTTT	68
45	(2) INFORMATION FOR SEQ ID NO: 2917:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:	
55		

	GGAAA	65
•	(2) INFORMATION FOR SEQ ID NO: 2918:) ·
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:	•
15	AAATTCCAAT CCTGGGAATG GGATTCCATG GTnTTCGGAA AAATCCGCCA CCCCAAAAAA	60
	ATAAATGGGT CCCTTCCCTT GGAAATATTA CCTTTACCAG G	101
	(2) INFORMATION FOR SEQ ID NO: 2919:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:	
30	TAATAAATCC ATGACCACCG TCACGACGAT CTGACTGATA AACTAATGAC ATATGACTGG	60
	TGTACACACC GTATG	75
	(2) INFORMATION FOR SEQ ID NO: 2920:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:	
45	CTTGGATTGA CCATCATTAG TTTTGGTCAC TCTAAGTTGT ACTGTCCGTT GTACAA	56
1	(2) INFORMATION FOR SEQ ID NO: 2921:	:
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GCTCATTGCT TGTATATTAA TCCCTGAAAT TGACCGTGTA TATCCCGTCG ATCTATCTTG	60
	TCCTG	65
5	(2) INFORMATION FOR SEQ ID NO: 2922:	03
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:	
	GCAATATTCT AATCTGTATG TTACAGCACA TGGATATAGC ACATCCGGGC	50
	(2) INFORMATION FOR SEQ ID NO: 2923:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:	
30	TGTGATTTAA CAGGATTACA CAGGTGTACC AGCCGATAGT TGATTAAGCT TCTT	54
	(2) INFORMATION FOR SEQ ID NO: 2924:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:	
	ATCCTGGGAA GTGCTGAAAA ACCACTNCAC TAAAGGCATA GGANCCACAC	
	(2) INFORMATION FOR SEQ ID NO: 2925:	50
45	(i) SEQUENCE CHARACTERISTICS:	٠
50	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:	

(2) INFORMATION FOR SEQ ID NO: 2926:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:	
	TTGGTCACAT TTATTCTCGT GTTGTGCCGT TCTTCTTCAG TACTAAAGAC AAGGTGATTC	60
15	GG	62
	(2) INFORMATION FOR SEQ ID NO: 2927:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2927:	
	CAAAAGGCTA TCCCACCTGA TTTGCAAAAG GAACTGGACT GCAAGGGAAG TCTCAG	56
30	(2) INFORMATION FOR SEQ ID NO: 2928: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:	
40	TGATCTTGCT ATTTAGTTGC GGCTTGGATT CATTTGGCAT GGTTAAGATT AAATTAGATG	60
	CTTCATTCAT TCAAGATTTC TTCATGTTAG CATTCTTTAC GACAATCGGT CTTGGTGCAT	120
0.2	CATTGAAATT ATTTAAATTA GGTGGCAAAG TCTTGCTATT ATACTTTATG TTTTGTGCTA	180
45	TCATTTCAGT CATTCAAAAC ATAGTTGGTG TATCACTAGC AAAAGTATTA AATATTAAAC	2,4,0,
	CTTTGTTAGG ATTAACAGCA GGTTCCATGT CTATGGAAGG CGGTCATGGT AATGCTGCTG	300
50	CTTATGGTAA GACAATTCAA GATTTAGGTA TTGATTCGGC ACTGACAGCG GCTCTTGCAG	360
	CTGCAACTTT AGGTCTTGTA TTTGGAGGGC TATCGGTGGT	400
•	(2) INFORMATION FOR SEQ ID NO: 2929:	,

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:	
10	CTGAACCGAT GGCGCACTTT GCTACGCCAC CTACAGCAGA TCCCANGGGG GGNGAAGCTT	6
	ATACTGAAGC TCTACGTTCA ACATTTTCC ATTGGGGATT CCATGCTTGG GCTGTTTATG	120
	GTGTTGTTGC GTTACGTTTG GCATATTCGC AATTCCGTAA AGGTGAACCA GGTTTATTAT	180
15	CTAGAACTTT ACGTCCTCTT TTAGGTGATA AAGTAGAAGG TCCTATTGGG ATTTTTATTG	240
	ACGITITATC TGTATTTGCG ACAATCGTTG GGGTAGCCGT TTCGTTAGGT ATGGGTGCTC	300
20	TACAAATTAA TGGTGGTTTA CATTACTTGT TCAATGTTCC AAACAATACG TTTGTACAAG	360
	CGATTATCAT CATTGTTGTT ACTATCTTAT TTATAGCAAG	400
	(2) INFORMATION FOR SEQ ID NO: 2930:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) Topobosi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:	
	ATGTAGATCT ATATGATGAC TTTTTACAAG ATCCATCATC TGTACCAGAA GATTTAAAGT	60
35	CTTATTCAGC ACAATTAAGA ATGATGACTC AATTGTACCA GCTTTAAAAA GTACAAGTAG	120
	TCANAATAGC GACGGCACAA TTAAGCGTGT CATGCGTTTA ATTGATAATA TTCGCCAATA	180
40	CGGGCATCTT AAAGCCGATA TTTATCCTGT AAATCCTCCA AAAAGGAAAC ATGTACCTAA	240
	ATTAGAGATT GAAGACTTTG ATTTAGATCA ACAGACTTTG GAAGGTATAT CAGCAGGAAT	300
	TGTTTCAGAT CACTTTGCCG ACATTTATGA TAATGCCTAT GANGCAATTT TAAGAATGGA	360
45	AAAACGTTAC AAAGGNCCAT TGCATTTGAG TATACCNTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2931:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

		GGTTATACAA TO	TAGAATCG	CATGATAATT	TAATGCTACA	AATCGATAGT	ACAATATATC	60
		TACCGTGAAT AA	ACTGTGCAA	ATAGTGACGT	TGTAGCCGCC	ATACGCATTT	CATTTTCATC	120
	5	AGTTCTGCCA TA	AATCAATG	CATAGTCTGC	AATTTGAGCC	ACTGGATTAT	TAGCTGTACT	180
		AGATATAGTT AT	GATGGGAA	TACTGTAATG	TGTGGCCACC	TGTGCAATTG	ACTGCAATTC	240
,	10	ACTATGGACT AC	CTTGGATT	CGTCACAAAA	ATCATGCAAT	CTCTATCATC	ATGCGTCGCA	300
		AATGTTGACA CA	AGTGAAAT	GCGTTTCCAT	GTAATAACCT	GACATTIGAA	GCCATACGAG	360
		ATAACTTTGG AA	LAAAGATCA	CCAATAGnCC	AACTCGATGG			400
	15	(2) INFORMATI	ON FOR SE	Q ID NO: 29	32:	•		
		(A) (B)	LENGTH: TYPE: nu	ACTERISTICS 392 base pa cleic acid NESS: doubl	irs			
;	20	The state of the s	TOPOLOGY		.e			
					*			
		(xi) SEQ	UENCE DES	CRIPTION: S	EQ ID NO: 2	2932:		
	25	CTTTCAGTAG CA	GCTACAAT	TGTCTTTAAC	ATTTAAGTTT	AAAGCTGTAT	GTGTCAACCG	60
		CAAATACCGA TA	GCCATTCA	CTAATGAAGT	TTCAACTAAT.	TTAGTACGAT	CTGACAATAA	
	30	CTTTTTGTAA TC	TTGGGCTG	CTTCAGCTGA	TACAGCAATA	TTTCTCATTG	TTTTAACAGC	180
		TTCTTCAGGA TA	TAAACCAG	CAGCAGTTTC	ACCAGATAAC	ATTACTGCAT	CTGTACCATC	240
		ATAGATTGCG TT	GGCAACGT	CACTAGCTTC	TGCACGTGTA	GCACGTGGGT	TACGTTGCAT	300
	35	AGAATCTAAC AT	TTGTGTAG	CTGTAATAAC	TGGTTTACCT	AATTTGTnAC	ATTGTCTGAT	360
		TAAATCTTTT TG	AACCATTG	GGACTTTnTC	AG		•	392
	40	(2) INFORMATI		Q ID NO: 29 ACTERISTICS				
		(A) (B) (C)	LENGTH: TYPE: nu	400 base pa cleic acid NESS: doubl	irs			
	45	, <u>, , , , , , , , , , , , , , , , , , ,</u>						
		(xi) SEQ	UENCE DES	CRIPTION: S		2933:		
	50	TGACTATGGT AT	CGCATGTT	GTGTATCAGC	GATGACAATT	GGTAAACAAA	TGCAATTCTT	60
		CGGTGCACGT GC	GAACTTAG	CTAAAACATT	ACTITACGCT	ATCAATGGTG	GTAAAGATGA	120
		AAAATCTGGT GC	ACAAGTTG	GTCCAAACTT	CGAAGTATTA	ACAGCGAGTA	TTAGAATATG	180

	ATTAAATGTT ATTCACTACA TGCACGATAA ATACAGCTAT GAACGTAATT GAAATGGCAT	300
	TACATGATAC ANAAATTGTA CGTACAATGG CAACAGGTAT CGCTGGTTTA TCAGTAGCAG	360
5	CGGACTCATT ATCTGCATTn AATATGCACA AGTTnAAACC	400
	(2) INFORMATION FOR SEQ ID NO: 2934:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:	
	AAAATATGCC ATGACTGGCA TGACAAGAAT TGGACGTTAG AAGCATCTCA AACTGGTACG	60
20	TTCAGAGGTC GTAACTHTAA CTTCAATGGT GAAGGATTCT CACGTCAAAC ATTTAAAGTA	120
	AATGCCGTTA GTCAAAAAGA CTACGACAAA TGGGTGAAAG AAGTTAAAGG TAAGANAACG	180
	TTAGATCAAG ATACATTTGA TAAACAATTA TTACCAAGCA CACCTAATAA AGCTTTAGAA	240
25	TTTAATGGTA CACATATGGC GTTTGTTGAT CCAGCAGCCG ATCCAGAATA CATCTTCTAT	300
	GCATATAAAC GTTTCAATTT CGGATTGAAG GTCCCAAACT TCACTAGTGA GGAAAATATG	360
30	TTTAAGGTGT ATCAGACAAA CCCTTAATAC CTGCTCGTGA	400
	(2) INFORMATION FOR SEQ ID NO: 2935:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:	
	ATGGAGTATA CAACTACTTC GGCATTGGCG CTTACGACAA CAATCCTAAC TACGCAATGA	60
45	CGTTTGCAAG GAATAAAGGT TEGACATCTC CAGCAAAAGC AATCATGGGC GGTGCTAGCT	120
	TCGTAAGAAA GGATTACATC AATAAAGGTC AAAACACATT GTACCGAATT AGATGGAATC	180
	CTAAGAATCC AGCTACCCAC CAATACGCTA CTGCTATAGA GGGTGCCAAC ATCAAGCAAG	240
50	TACAATCGCT AAGTTATATA AACAAATCGG CTTAAAAGGT ATCTACTTCA CAAGGGGTAA	300
	ATATAAATAA AGAGGTGTGT AAATGTACCA AATAAAAGAT GTGAAACGAG AATTAAAAAT	360
	GATGGTGTG ACTTAGGTGA CATTTGGCTG TCGTTTTACA	400

图.

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
9 •		٠
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2936:	acquest rement any processes
υ	AAACAATACA AACAAAAGAA AGTCAACCAA GGATGGATTC CTATTTTAAT CCTTGGTTGA	60
	CTCTTATTT ATTTAAATTG TAGAACCTAG AAAATAAAGT TTAATTAAAA GCACCAATCA	120
5	TTTCTACTTT GAAATCTAAG GTTTCTAAAA TAGCAATGAC TTTCTTTATA TCGGTTGTAA	180
	TTGCAGAATC AGCCTGAACG AAAAATCGAT ACATACCTAA TTGTGTTTTT AAAGGACGAG	240
	ACTCAATCCA GGGTAAATTA ATATTAAACA AAGCAAATGT ATTAAGCACA CTTGCTAACA	300
20	ACCCGGGTTA TCATGCATTG GTGTAATTAA AAACATCAAT GGTGTCGCAT TTTGATCAAA	360
	TGCTGCTGAT TTTTTATAAC TAAAAACGTG TCAGGTATGT	400
	(2) INFORMATION FOR SEQ ID NO: 2937:	
? 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937:	,,
35	TTATTATCTT GATACATTGA GTGTATATTC CATTTTCCAT GAGGCGTTAA ATAACGCATA	. 60
1	CCAAAGCATC TGTACCACCT TTAATTTTCT TATCTCTATT CCCAAATACC ATTGGCGGCA	120
•	ATGTCGGTTT ATATACTGGT AAGCTCTCCC CAAATTGTTG GAAAACTTCG TGATCCACAT	180
10	AATAACTTTG GACGTCCTGT TAATGTTCTA AAAGGTACTA GACGTTCTAT ATTCGTTGTA	240
	AATGGTGGAA TATCGTCGAC CTTGTTTATT TGAACCGGGG AATACTGCTG TCGGTATTAC	300
	TTCTCGTGGT TGTGGAAGTT ATATTTAAAA ACGGAAATTT TCTCAGCAGC GnTTTCGTTA	360
45	GGAAATATCT TTTAACGGGC ATTCCAGTTT GTTCnTCGGG	4.00
	(2) INFORMATION FOR SEQ ID NO: 2938:	,
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, .
	(-,	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2938:	
	TATCTCTTAA AGCCGGTGAT GGTGGTAATG GTATTACCGC ATACAGAAGA GAAAAATATG	60
5	TACCATTTGG TGGACCAGCT GGCGGTGACG GTGGTAAAGG TGCTTCAGTC GTATTTGAAG	120
	TGGATGAAGG TTTAAGAACG TTATTAGATT TTAGATATCA ACGTCATTTT AAAGCAAGCA	180
	AAGGTGAAAA TGGCCAAAGT AGTAATATGC ATGGTAAAAA TGCGGAAGAT TTAGTATTAA	240
10	AAGTTCCACC TGGTACAATT ATTAAAAATG TTGAAACAGA CGAGGTTTAG CAGATCTTGT	300
	TGAAGATGGT CAAAGAGCTG TAGTAGCGAG GGCGGTCGAG GTGGCCNAGG TAATTCACGT	360
15	TTTGCAACAC CTAGGAAACC CTGGCACCTG GACTTCATGG	400
	(2) INFORMATION FOR SEQ ID NO: 2939:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 384 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 10102001 1210012	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:	r, see .
	CTAACCTCGA GTTCGTATTA TGCCCACCAC ATGTCTGCTG GCTTGTCGTA AATATTAACA	60
30	GATITCAAAG TITGACAAGC TITTTGGAAA CCTTCTTCTA CTGACATAAT AGGATCTTCA	120
	TGTTCAATAC TTAATACATA ATCATATCCA TTAATAATAA GTTGACTTAT GATATCTGCC	180
	CATACATATG GACTATGTCC TAAGCCAACT GTACGGAATG TCATGCTCTT GTCGCAACGT	240
35	TACCATATGG TTGCATATCA GTTAGACCAT ACATATTTAC ATTTTCTTGG ATTAATATAC	300
	GTATCTTTAG CATGGAAGTG ATGAATTGCA TTTGCTTGGn CTAATATGCG AATCGCAGCC	360
	AATTGGGTCA ATANCNTGGC CACC	384
10	(2) INFORMATION FOR SEQ ID NO: 2940:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:	
-	TTTCATATTT TTCTATTAAT GATTCATATT GTAGGGTGAT TGCAATGTCA TCTAAGCCAT	60
	TTACAAGTTT ATTCTTCCAA GTTTCATCAA TTTCAAAATG GAAACGCTTG TCTGGTGATG	120

CACTTTTTC TAAAACGATA GGCAACATCG CATTTTTAGT GCAATTCATA	TAAAATATGT	240
CACTGAAACT TCCTGCAATA ATAATATGAA AACCATAGTC CTTAAGAGCC	CAAGCAGCAT	300
GTTCACGACT TGAACCACAT CCAAAATTAT CTCCAGTNAT TAAATNGGAG	GCCCCTTTAT	360
ATTGTGGTTT GTTAGGGTTG AATCAGGGTT TnTnGGAACC		400
(2) INFORMATION FOR SEQ ID NO: 2941:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid		
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	*	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:		
ATCATAATCC ATCGTGCGTC CAAGAAGTAC TTGATTATTT AAAGTTTGTA	TTGTGAATCC	60
TGTGCACATT GTTCTCACTC CTCTGTACCT TCATTTACTT TAATCACTTT	CAAATAAAGC	120
TGTTTCACTT AAACATACTA TAAAAAATCA ATTATACAAG CAATTAATTG	ATATTCATTC	180
TCAATAACTG TGGTATGATA TGTAAGGAAA TCATGACTTA TGTGTGAGTG	AACGATCATC	240
TATACATCCG TTCACTTCAT CTCATGACTT TCTATATTTA ATTTTTACAA	GGGAGTGACA	3,00
TCTGTGAATA ACACACATC TTCACCACGC GTAATATLAT TATTGCGATT	ATGTTGTCTG	360
CATAACATAT GGTTGTTGCA CAATCATTAT TANTATAGGA CCTCCGTTG	• 1 · •	409
(2) INFORMATION FOR SEQ ID NO: 2942:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	*•	
(D) TOPOLOGY: linear		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:		
ATGAAGTGTC AAAAGGTTTA AAAACATCTG AAAGGGGTTC GCACATGTTT		60
AAATAAAGGT GGATGTCCAA AATGTCGACC AGCAATCAAC TATTATTTAA		
TCCACATGAT CATGAAGATG AAAGAGAATC AAGATTTGCT AACGAACGTT		•
TATTCAAAAT GATGGTACAT TTTCTGTTAT ACCTCAAATG CGTGGGGGTG		
AGACCAACTG ATTCGTCTAG GAGAAGTGGC TAAGAAATAT CATGTGCCAC		
GACAGGTTCA CAACGTGTTG GTTTGTATGG AGTTAAAAAA GAAGATTACC	AAATATATGG	360

(2) INFORMATION FOR SEQ ID NO: 2943:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:	
	ACCTGGAAAT GTATGTGCCA TCTCTTTAAG CCAATCAGTA TCTTGAATAC CTTTCGTTCC	6
15	AACTATGCAA TAATTAATCC CTGCGGCAAA GTAGTCCATG ATTGTGACTT CGTACGAATG	120
	CCACCACCTA CTTCAATATC TTTGGTTGTT AATCTCCTCA ATGACTTAAT ATAATCAAAC	180
	TCTCGGGCAT GCTGTGCCTT AGCACTCATC AAGTCGACGA TATGAATACG ATTCACACAT	240
20	TCAAATTGAC TATAGTAAGC AATACTTTCT TCAGCCGAGC GTGGACATTT TTTCTTCACT	300
	ATCATATTTA CCCTCTGTTA ACCTCACACT TGTTGACCCA ATCAAATCAA	360
25	ATAATTCAAT CATTTNATAA ATCCCCCTTG TATTGGCCTG	400
25	(2) INFORMATION FOR SEQ ID NO: 2944:	#
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:	
	AACAAAAGGG GTCTATCGTC AATCGTTTCT TGAATAGTGT TGAAAAAAATC GGAAATAAAT	60
	TGCCAGATCC TAGCGTCTTA TTCTTTTTAA TGTGTGTGGG CTTAGCCATT ATGACATGGG	120
40	TTATCTCATT ATTTAATGTA TCTGTTAAGC ATCCAGGTAC GCATCAAACC ATTTATATTA	180
	AAAATATAAT TAGCCATGAT GGATTTACGA TGATAATGAA TGATACGATT AAAAATTTCT	240
45	CAGAGTTCCC AGCATTAGGC TTAGTACTAG CAGTGATGAT TGGTATTGGT GTTGCAGAGA	300
	AAACAGGATA CTTCGATAAG TTAATGATTT CTGTTGTGAA TCGCGCACCA CGTTTCTAAA	360
	TTTACCGCTA TAATATTAAT GGGAATTTTA GGGAGTCAGA	400
50	(2) INFORMATION FOR SEQ ID NO: 2945:	
<i>EE</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

5. II	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:	
5	ATTTTACAAG TAACGGTGCA TCACCAGATT CTAATTTAAT GTCATGCTCA GCAGCATTTT	60
	GATAACCCAA CTTTTCAAAG TAGTCAAAAC AATGGTCTAC AACAACCGTA CTATACTCTT	120
	GTGCTTTGGC CGCTCTTCTA CTGCTTGAAC CAAGCCACGA CCTAATTTTT GTCCACGTAA	180
10	TTCAGGATGA ACTGATAAAG AGGCAATCGC CAAACCATAA TACGTCTTAT CATCACTATT	240
rie .	AATTTCTACT TCAATTAATA AAACGTGTCC AACGACATCG TTATTTTCAT TTTTCGCTAT	300
	TACTTCTAAT TCAAAATTAT AGCAAGGAGA TTTTCTTAAA TGGTTTACTT TCGGCACGTG	360
15	CCTGGCCAAC TCGTTTTCAG GATTATCATC CAAACTTTCC	400
	(2) INFORMATION FOR SEQ ID NO: 2946:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:	
	GGAAATAATT ACTTGAGCTA GATAAGTTGA CAGCTGTGCA ATTATTTTCA GCAGCTAATT	60
30	GTAAAATTCG CTCTAATCTT GCTGATGAAT GTTCAGGCCC TTGACCCTCA TATGCATGAG	120
٠.	GTAAGAATAA TGTTAATCCT GAACGTTCTC CCCATTTTGA GCGAGAACTG AATAAGAAGT	180
	TGTCAAAAAT CATTTGTGAC ATATTTGGCA AAATCACCAT ATTGTGCTTC CCAAATATTG	240
35	AAGCTTTTTT TGTTTTCCAC ATTATAGCCG TATTCAAAAC CAACTACTGC TGCTTCTGAA	300
	GCGGAGAATT GTGTATATCA AATGTCGCTT TTTGANCAGG AGCATGATGT AAAGGTGTAT	360
40	ATGTTnCACC nGTTTGCTCA TCATGTnACA CGGCAGCCGT	400
40	(2) INFORMATION FOR SEQ ID NO: 2947:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	e,
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2947:	

	TTCAATTGTG TCACCGATTT TTAATACATC TTCCACTTTT TCAATTCTAT TTTTTGAAAT	180
5	TTGTGAAATG TGAAGCAACG CATCTTTACC TGGGAATAGG CCTACAAACG CACCGTATTT	240
•	TTCAATACGT TTAACAGTGG CTTGGATAAG TTTGACCTAC TTCCGCTTCA CGTGTAATTT	300
	CCTCAATGAT TTCACGAGCA CGATTTATCA TAGCTTGATC AACAGCACCC ATAAAGATAG	360
10	TACCATCCTG GNCCATATCN AATTTAACAC CNGGNTCCTC	400
	(2) INFORMATION FOR SEQ ID NO: 2948:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2948:	
	TTTTTCAAGT TTTGCTGAAG GCTTTACACA AGGCTATTTA ACAATGGATG CCATTGCAGC	60
25	AATTGCTTTT TCAATGATTG TTGTTAATGC AGTAAAACTA ACAGGCATTA CTAAAACAAA	120
	TCAAATATTC AAACAAACTT TGACTGCTGG TTTAATTGCA GCCGTAGCTT TAATTTTCAT	180
	ATATATTTCA TTAGGTTATA TTGGTAATCA TATGCCAGTA AGTGACATGA CGTTAGATCA	240
30	ATTGAAATCC AAAGATCGAA ACATTGGGAC ATATTTATTA ACGACAATGG CTTCAACAGG	зŏо
	ATTTGGTCAT CCGGAAAATA TTATTGGGCA TCATTGTGGC GCTGGCATGC TAACTACAGC	360
	ATGCGGGCTA TGGTGCAGTT CCTGAATATT CCATAGATCG	400
35	(2) INFORMATION FOR SEQ ID NO: 2949:	7
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:	
	CATGGCTTCA GATTGTTTGA ATTGAATGGA CAATTTTGGN TTCTGTCCAA AATTCTTACA	60
	AAATCTTCTA CCGATAAACT ATCAAGTTCA ACTCTAATCG GAAAAACGAC CTTGCAATTC	120
50	TGGTATCAAG TCACTCGGCT TÄGATACATG GNAAGCTCCA GCACCTATAA ACAGCATATG	180
	TTCAGTATTC ACAGTACCAT ATTTGGTTTG AATAACGCTA CCTTCAAGTA TAGGTAAAAT	240
	ATCTCTTTGA ACACCTTGTC TTGAGACATC TTGACCACTA TTATGATTAT TCGTCGCAAC	300

400

GTTAGCGCTT TCTTGATCAn TTAGTTCATC CGCATAACTA

	(2) INFORMATION FOR SEQ ID NO: 2950:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·	
	(D) TOPOLOGY: linear		
10			
* •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:	. Kara (†	
15	TTGACTTTGT AACTAAACTA CTCACTCGAC CGACTCAACT GTTTAAATGT 1	TTCAGATGGT 6	0
	TTAACTCTAA ATACTACGTA TAAATCACCA GCAGGTCCTC CATTCACGCC T	rggagagcct 1.2	10
	TCACCAGCTA ATCTAATTTG TTGTTCATTG TCGACACCTT CAGGTACTTT C	CACTTCTAAT 18	10
20	TTAACTGTTT TATTTTCAGT ACCTTTTCCG TGACATGTTG GACAAGCTTC T	PTCAAATTCT 24	0
	TGACCACTTC CATTACATTT AGGACAAACT TGTTCAGTAC GAACTCTACC T	TAAAATTGTG 30	0
	TTTTGTTCTA CAGCTACATG ACCAGCGCCA TTACAGTAAC TACAAGTCTT T	PTTACTTGTT 36	ю
25	CCAGGCTTTG CACCATCACC ATGACATGTT TCGCATGTNA	40	0
	(2) INFORMATION FOR SEQ ID NO: 2951:	*	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	i (i)	
35			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:		
	CAATGATTTT AAAAGATGCA ATAAAACCAA ACTTAGTACA ATCAATTGAA G	GGACACCTG 6	ю
40	CATTAGTTCA TGGTGGACCA TTTGCGAATA TCGCACACGG TTGTAACTCA A	ATTTTAGCAA 12	0
	CTGAAACAGC ACGTGATTTA GCTGATATCG TTGTAACGGA AGCTGGATTT G	GGTTCAGACT 18	0
	TAGGCGCTGA AAAATTCATG GACATTAAAG CGCGTGAACA GGATTTGATC	CGGCAGCTGT 24	0
45	CGTTGTTGTT GCGACAATTC GTGCGTTAAA AATGCATGGT GGTGTAGCGA A	AAGATAATTT 30	ю
	AAAAGAAGAA AATGTAGAAG CAGTAAAAAG CAGGAATGGT TAATTTAGAG C	CGTCATGTTA 36	0
	ATAATATTAA CAATTCCGTG TAGANCCGGT TGTTGCCATA	.40	0
50	(2) INFORMATION FOR SEQ ID NO: 2952:		
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	5	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:	
TCAAGTAGCA AAAGAAACAG GTGCTTCAGT TATCGGTATT GATATTGGTC CACAAGCCGT	60
10 TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA	120
TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT	180
ATTCCTTTAA AGTACAGCAT TTTAGAAGAA TTATATGATT TAACAAATGA AAATGTCCGT	240
AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG	300
GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC	360
ACTTNATNAA ANAGCCGGCT ATAAAGTNGG TATTACGGAT	400
(2) INFORMATION FOR SEQ ID NO: 2953:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:	. "
CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA	60
TTATCCCATG GGnTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT	120
35 ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC	180
ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC	240
TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA	300
ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT	360
AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA	400
(2) INFORMATION FOR SEQ ID NO: 2954:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	•
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2381

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2954:

	AACACTITAA TGGAGATTTA GCAGGCACTG TTACACTGAC AGCAGGTTTA	GGTGGTATGG	120
	GTGGTGCGCA ACCGTTAGCA ATTACTATGA ATCATGGGGT AGCAATTTGC	GTGGATGTTG	180
5	ATGAAACACG TGTTGATAAG CGAATTGATA CGAAATACTG TGATGTTAAA	ACAGCTGATT	240
	TAGATGAAGC ATTAAAATTA GCAGAAGAGG CGAAAGAACG TGGGAGAAGG	ATTATCAATC	300
	GGGTTAATTT GGAAATGCTG TAGACATCCC ATCCAAGCGG ATTCTAGGAA	AAAGGGTTTT	360
10	AAAATTGGAC ATTAATTACT GGTCCCAAAC CAAGTGCCCC		400
	(2) INFORMATION FOR SEQ ID NO: 2955:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:	·)·	
	TTCAGAATAC GAGCAATGTC AGTTGCAGTG TTTAATAAAT TTTGTTCGCT	ATTTTGTAGG	. 60
25	CATCTTCTAA AGTGCTAGGT GAAGAGATTA TAGAATAGGC ACTATCAATA	CCGAAATCGT	120
	AAACATGTTG ATAATTTTCG CCTAGACTGC CACAAATCGC GATGACAGGA	ATATGATATT	180
30	GTTTTGCAGC TAACGCAACG CCTACGGGTG TTTTACCAAA GATGGTCTGA	TAATCCATGC	240
<i>50</i> .	GTCCTTCTCC AGTAATAACG AGGTCTGCAT CTTTAATTCT TTGATGAAAA	TCTGTAATGT	300
	CAAAGACGAC ATCAATACCT TTTGTTAAAG TTGTCTCACA AAACGnTAAT	AATGCTGCGG	360
35	CCATACCGnC AGTGCACCAG AACCTGGTAT TTGGTTnACG		400
	(2) INFORMATION FOR SEQ ID NO: 2956:		.*
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		• 00
	•		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:		
· •	AATACGTCCT TTATATAATG TTAATAACCA GTTAAACAAT TTCACACCAG	TTGGAATACC	60
	AATCAGCATT GTTGAAATTG AGAAGAATGA GTTGATTAAC GCACCATTAC	CCATTGTGAA	120
50	GAAATGGTGA ACCCAAACTA AGAAACTAAG GAACGCGATA CCGGCAGTTG	CCCATACCAT	180
		G1.00111.0	240

	CCAAAGCATT GGGCATACCG CCATGTGGCA CTGTGGAAGA ATGCTGTGTC CAATATTCCG	360
	ntcattggtn cattaatggc taacgctaac ggtttaaagg	400
5	(2) INFORMATION FOR SEQ ID NO: 2957:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:	
	TAGTAATTAA TACGATGTCA GCACCTACTG ATTTTGCTTT GTCTGCTAAT AATCTTAAAT	60
	GTTCCGTGGA CCTGAACCAG AGATAATTAC AAATACATCA TTCGACTTAA TCGCAGGTGT	120
20	CGTTGATTCT CCAACAACAT GTGCCTGTTT GCCGAGCTGA TTTAAGCGCA TTGCAAAACT	180
	ATTCGCCACG AATCCTGGAA CGTCCTTTGC CAGCTACAAA TATATGTTCA GCATGTAGTA	240
	TITTGGGATG CAAAAGTTGG AAAACTCCAT CCGnTTCAAC ATGTGACAAA GTCATCTTTG	300
25	AATTCATCTA GANTTAATTG ATAGTCACTA ANTTTAGCCA TATTACTTAC CTTCGGTTGC	360
	CAGCGCGACC ATTGTTTCGC AGCTTCTTAC TGGG	394
30	(2) INFORMATION FOR SEQ ID NO: 2958:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:	
40	AATTATTCTA CCTATAATTA AAAATGCTGG CAAAGGTGTA ATGATGATGA GTAATGAACC	60
	TACAACATTT AATATCAATC CTACATAAGT AATTTTGACG CGACCAAATT TATCAGCAAC	120
45	ATCACCAGCA CCTACGATAA ACAAACCAGC AAATAAGGCA GATAAGCTAA CAGCGATTAT	
	TTATCGTTCC AACGTCACTA CTATATGTTG ATTGTAATGG GACAACAAGA TTAACAAGTG	240
	ACTGCGCGAA TAGCCAAAAG GTAATAACCC CTAAAACGAT ACCCAAANGC AATCGGTTGT	300
50	TCACCTCTTA AATTGTTTTG ATGTGTCCnT GGATTAGGAT AAGCCTCCTA TGTTTAGGAA	360
	AAACAATTTT TAATATGGTA TATTAAGGAN ACATTTCCTT	400
	(2) INFORMATION FOR SEQ ID NO: 2959:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:	
10	CTTCTTTCTC AACATCAAAG AACATATGGT TTTGTTTCAA ATATTCTTTT ACTAGCGCGA	60
	TATGTTCGTC TGATCTACCA GTTAACTTCA TATATTTAAG AGATTCATCA TCAACTGGGA	120
	AGAATCCGCA AGTTGCTCCA TACTCTGGTG CCATGTTTGC AATTGTAGCA CGGTCTGCTA	180
15	GTGGTAAATG TTGTACACCT GGACCAAAGA ACTCCACAAA TTTACCAACA ACACCTTTTT	240
	TACGTGGCTC TTGAGTTACT CTTAACGCTA AATCAGTTGC TGTTGCGCCT TGTGGTAATG	300
	AATTTACTAG TCGTACACCA TTAACCTCTG GAATTGGGGA AATAGGAGGG TTGTCCAGGC	360
20	ATTCCAGCTT CAGTTTCAAT ACCACCAACA nCCCTCCTAG	400
	(2) INFORMATION FOR SEQ ID NO: 2960:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·e
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:	
	ACGTCAAATG TAATCACAAT CGGAAAGTAT CGTGACAATG CATATATAAC AGGGAGGGTT	60
35	TAAATATGAG TTACTAAGGG GATTTTTAGA TTTAGGTGCA CTGTTTATTT TACCGGTTGT	120
	CATATTCTTG CTTGGCCTAT TCTTTAGGCA GAAAATTGGA GCGGCATTTA GGTCTGGTTT	180
	AACAATAGGT GTGGCTTTTG TAGGGATTTT CTTAGTCATC GATTTATTAG TTAAAAATTT	240
40	AGGGCCAGCA GCACAAGCGA TGGTTAAAAA TTTAGGCGTC ANTCTGAATG TGGATTGATG	300
	TAGGTTGGCC AGCAACATCA TCTATCGCTT GGGCATCATC TGTnCGCnCC ATTTTATTAT	360
	TCCACTCGGG ATTCATAGTT	380
45	(2) INFORMATION FOR SEQ ID NO: 2961:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

GGCCATTGGT CGAACTTACG AAGAATCATT GTTAAAAGCA ATTCGATCAC TTGAGTA	TGG 60
TGTGCATCAC TTAGGATTAC CAAATGGTGA AAGCNTCGAT CTTGATTATA TTAAAGA	ACG 120
TATTTCACAC CAAGATGATG GACGATTATT TTTCATCGGC GAACAATTAG AAGAGGC	ACA 180
ACAGTAGAAG AAATTCATAA TATGACTCAG ATTGATTACT TCTTCTTACA CAAGTTC	CAA 240
AACATTATTG ATATTGAGCA TCAATTAAAA GAGCATCAAG GTGATTTAGA ATATCTT	'AAA 300
TATGCHAAAG ATTATGGHTT TAGTGGTAAA ACAATAGCGC ATCGCCTTAA TATGACG	G 358
(2) INFORMATION FOR SEQ ID NO: 2962:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:	
TTTGGGCATC ATTAGGAAAA TTCTTTGAGC AACTTTAGTG TCTACTGGGT AATACAA	TTT 60
TATCACCATG TTTTTCTAAT AAATCTTTTG CGAATCGATT TTATCTTCTT CTAATAA	TGA 120
AATACCAATT TCTTTACCTT GCGCTTTTAA GAAAGTATAA GCCATACCTC CGCCGAT	GAT 180
AATTITATCA GCTATGITAA CTAAGTITIT GATGACATTA ATTITGTCAG ATACTIT	TGn 240
GNCACCTAAA ATAGCAACAA CTGGTTTATG TGGATCGTTA ACTACGCCGC CAATAAA	CTT 300
AATTTCTTTA TCCATTAAGA ATCCAGCTGC AGTTTCTAAA TGTGTAGAAA TACCAAC	ATT 360
ATTn	. 364
(2) INFORMATION FOR SEQ ID NO: 2963:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:	
	-,`` -,~**
GTTGATTTCT TGAAAGATAA TAAAAAATTC AAAGAAATGG GATCTAGGAT TCCTAAAC	•
GTCTTACTTG TTGGACCTCC AGGTACTGTT AGAAACATTA CTTGCTAGAG CGGTTGC	AGG 120
TGAAGCTGGC GCACCATTCT TCTCTATTAG TGGTTCAGAC TTTGTAGAGA TGTTTGT	rgg 180
TGTTGGTGCG AGCCGTGTTC GTGACTTATT CGATAATGCT AAGAAAAACG CGCCTTGT	TAT 240

	TCATGATGAA CGTGGAACAA ACCCTAAACC ANTATTAGTT GAANGGATGG TTTNCGGTGG	360
i .	AAAATGAAGG TG	372
5	(2) INFORMATION FOR SEQ ID NO: 2964:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0.0		3
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:	
*	TTAGCAGAAC GCCCACAAAA CCTATCTCTT GCTGTAAAAG AATTTGTGAA nCTGCTGGCT	60
	TAAAACGTGT TGGCATAATT GCAGCTTTAG GAGCTACAGT TATGTTAGGT TTAAGTACAA	120
20	TTAAAAAATT ATGCCGTAAA TAGAGCAAGA CATAAACAAT AATTTAGGAG TCTGGAACAA	180
	TAATCAATGT TCTAGGCTCC TAAATGTTAT ATTGGCAGTT CTGAAACATT TATAAATCTT	240
•	TGATTATGAA CTCACAACAG TGCTCTATGC TTTTATAGAT TTTAATAAAT TAGCCATTTC	300
25	AATTGCACTT ACTGCTGCTT CACACCCTTT ATTGCCAGCT TTCGnACCTG CnCCTTCCAC	360
	AGCTGGGCAA TACTGCCAGC CG	382
	(2) INFORMATION FOR SEQ ID NO: 2965:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) lorologi: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:	
40	GGGAATCATA CAATCATTAC CAATAAACAT GTTACTTATC ACATGAAAGT CGGTGATGAA	60
40	ATCAAAGCAC ATCCTAATGG TTTTTATAAT AACGGTGGTG GACTTTATAA AGTTACTAAG	120
•	ATTGTAGATT ATCCTGGTAA AGAAGATATT GCGGTCGTAC AAGTTGAAGA AAAATCAACG	-180
45	CAACCAAAAG GTAGAAAATT CAAAGATTTC ACTAGCAAAT TTAATATAGC ATCAGAAGCT	240
	ÄÄAGÄÄÄÄTG ÄÄCCTÄTATC ÄGTCATTGGT TATCCAAATC CTAATGGAAA TAAACTACAA	300
	ATGTATGAAT CAACTGGTAA AGTACTATCA GTGAATGGAA ATATAGTGAC ATCTGATGCG	360
50	GTTGTCCAAC CTGGCAGCTC TGGTTCACCT ATATTAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 2966:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:	
10	TGGGGATTCA CAGGCTAATA CATTTGACTT TATTAGCTGG TGGCGGTAAC GGCGCTGAAC	60
	TTTAAATGCG ATTCAAAGTG CTGCAATTAT AAGTGCATTC CCATTCTCCT TTGTCGTCAT	120
	ACTCATGATG GTAAGTTTCT ACAAGGATGC GAACCAGGAA CGTAAATTCC TAGGTTTAAC	180
15	ATTGACTCCG AATAAACATC GCTTACAAGA ATATATCAAG AGTCAACAAG AAGTTATGAA	240
	TCTGACATTC TTGAAAAGCG TCAGTCACGT GAAATATAGA GAAAAAAGAT AACTAATAAA	300
	GTTTAGTTAA GTATTTTAAT AACAAGTAGT ATGTCATTCT AGTAGCTAGA ACGGTNATAC	360
20	TACTTGTnTG TTTTTGTGGA AATTGAGTAT TTCAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 2967:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:	
	ACGAGGAATT AGTGAAGTAC AATATTATCG GTGGTTTTGA TTTAGGTGTT GTTTCAGACG	60
35	ACTITAAAAA TCACATGITA ATAGCIGIAA CIGAATTAAG AACAAAAGAT GAAATCGATA	120
	CATTTGTAGA AAAGGCTGGT GAGTTAAATG ACTAGTAAAT CAAGTCCATT AATTTTTGAA	180
	AGATCTCGTG AAGGCAGATA TGCATATTCA TTACCAAAAA GTGATATTAA AACAAATTCT	240
40	GTTGAGTCAT TGTTAGATGA TAAATTTATT CGTAAAAACA AAGCGGAGTT TCCTGnAGTT	300
	GCTGGAACTA GACTTHGTAC GTCATTAATC CTGGACCTTT CCAAATAAAA AATTCCGGnG	360
	GTAGACACCG GGTTTAACCC ATGGGGT	387
45	(2) INFORMATION FOR SEQ ID NO: 2968:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 806 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double	

	AACAAGTGCA AGTGAGTCAA CATCAGAAAG TGCGTCAACA TCACTCAGTG ACTCAACAAG	60
	TACAAGTAAC TCAGGATCAG CAAGTACGTC AACATCGCTC AGTAACTCAG CAAGCGCAAG	120
5	TGAATCCGAT TTGTCGTCAA CATCTTTAAG TGATTCAACA TCTGCGTCAA TGCAAAGCAG	180
	TGAATCCGAT TCACAAAGCA CATCAGCATC ATTAAGTGAT TCGCTAAGTA CATCAACTTC	240
10	AAACCGCATG TCGACCATTG CAAGTTTATC TACATCGGTA AGTACATCAG AGTCTGGCTC	300
	AACATCAGAA AGTACAAGTG AATCCGATTC AACATCAACA TCATTAAGCG ATTCACAAAG	360
	CACATCAAGA AGTACAAGTG CATCAGGATC AGCAAGTACA TCAACATCAA CAAGTGACTC	420
15	TCGTAGTACA TCAGCTTCAA CTAGTACTTC GATGCGTACA AGTACTAGTG ATTCACAAAG	480
	TATGTCGCTT TCGACAAGTA CATCAACAAG TATGAGTGAT TCAACGTCAT TATCTGATAG	540
	TGTTAGTGAT TCAACATCAG ACTCAACAAG TGCGAGTACA TCTGGTTCGA TGAGTGTGTC	600
20	TATATCGTTA AGTGATTCGA CAAGTACATC AACATCGGCT AGTGAAGTAA TGAGCGCAAg	660
	CATATCTGAT TCACAAAGTA TGTCAGAATC TGTAAATGAT TCAGAAAGTG TAAGTGAATC	720
	TAATTCTGAA AGTGACTCTA AATCGATGAG TGGCTCAACA AGTGTCAGTG ATTCTGGCTC	780
25	ATTGAGCGTC TCAACGTCAT TAAGAA	806
	(2) INFORMATION FOR SEQ ID NO: 2969:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• •
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2969:	_ 3
40	ACCATCTACT CCGTTAATAG TTACACTGTT ATCATTGGTG TTTGGACTTT CAGCCCTTGC	60
	ATCTAAAAAT ATAAGCTGAT TAAAATCTGT TATTACTTCT TCCTTGTAAC CATCTATGAT	120
	TTTTACAAAA GATTGCATTA ATTAGTCAAA CCTCCCATAT AATTATTTGC ATTTGCTCTA	180
45	TGCCCACTIT GITTIGACAA TATTITITCT AAACCICTAA TIGCATCAIT AGAACCIAAG	240
	GATTATCCTG AGAAGAAACA GTTTGAATCA ACGCATCTGT TAATTNATTN CCTTTATCAC	300
	TTAACATAAC AATTTGGTTC AACAATTTnC AACTGTAGAA GTATCATTAT T	351
50	(2) INFORMATION FOR SEQ ID NO: 2970:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid	
E E	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:	
	AGTGCTTGAT GAATTTTGAC CACAAATTCA AATGTATCAG GCGTTTCTTT TATCCATTTC	60
5	AATATATTTC TTTCCGGTTG TATCGCATAG TATGTCGCAT CTAATTCGAC AACCGGAAAA	120
	TGTCCAGCAT ATGTTTTAAG TTTATCGGTT TGGCGTTCTA AATCTTCATA TAATGAATAG	180
	TGATCACCCC AACCTGTTAA TCCGATGTTT ATCATATATA TCACCAATGT CATCATACCA	240
10	TATAACTTT ATCATAATCA TITCAGCGAA CTTTAGTTTG ATGTTTTTGC TTGATTAAAA	300
	TCTTTTCGGC GAnCCTCAGC TTGATGTTTT TCGTTGATTA AATGGTAAAT AGnnACGCA	359
15	(2) INFORMATION FOR SEQ ID NO: 2971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:	
25	CAGACGGTCA AGAATCTTAT ACTTATCAAA ATTTATACTG TGAAGCGAGT CTATTGGCTA	60
	AAAGACTCAA GGCTTATCAA CAATCTCGTG TTGGGCTATA CATAGATAAT TCGATTCAAT	120
30	CGATCATTTT AATACATGCA TGTTGGTTGG CAAATATTGA AATTGCGATG ATTAATACAA	180
	GGTTGACACC TAATGAGATG ACGAATCAGA TGAAGTCAAT CGATGTACAA TTGATTTTTT	240
	GTACCTTGCC ACTGGAATTA CAGGGTTTCA AATTGTATCG CTGGGTGATA TTGAATTCGC	300
35	TGGAGGGATA TTACANCGAN CAGTTGTTGG GCAACACAAT GGGTATCCAT TTGAACCATC	360.
	GGATGNAACT TTGTGCCGAA GGTCGCCTCC ACATNTAATG	400
	(2) INFORMATION FOR SEQ ID NO: 2972:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2972:	
50	TCAACCGCTT TACAGCCAAC CGGCGACGCT GACATGGATC GCCTGGCCCA TGCCCACGCC	60
	TTGGCGCCAT CATTATTAAT TGCTGCAGTT ACGGTATCTT TAATTGCGTT AAATAAACCT	120

	AAATCACCGA AATGTTATTC GCTTAACGTT TTGTTGTTGT TATTTTAAAA TAAATTTGAT	240
*	GCAATTAGTT TGTTTATCCG CACAACATCT TATAATGTAC TTAACTGTAT TTTAAAGAGA	300
5	AAAGAAATAC AGTTAGGCAT TCAAAACTGT ATTTAACACA ATTAAGTTGC CTGAATTCGT	360
	ATTTAAGTCT TATTGAACCT TTTTnAGATA An	392
10	(2) INFORMATION FOR SEQ ID NO: 2973:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	** **
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
00	(D) TOPOLOGY: linear	
15		
1.1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:	
	(XI) BEGURACE DESCRIPTION: SEQ ID NO: 29/3:	
20	ATTGCAATGA TAGCAATCGG AATCGCACCT GCTAAAATAA ACGTTGTGCC ATCCGTCGCA	60
	TTTGTACCAC GAATCACAAT GTCACCAAGC GTAGGTGCTC CTATAAATGA TCCAACGGCA	120
	ACAACACCTA TCGCAACAAC CAAGGCAATA CGAATGCCAC CGATAATAAC CGAAACAGAT	180
25	AACGGTAATT CAATCATTCG TAGCACTTGA TTGCGTGTCA TTCCCATACC TTTGCCAGCA	240
	TCCTTAATAT TCGCATCAAC ACTAGCTATA CCAGTATAAG TGTTTTTATA ATTGGAAGTA	300
30	ACGCATATAA AAACACTGTT AAACTACTGT TCTGAnCTAG CCTGACTACA TTAAATAGTn	360
	ACATTGCATG ACTGGACTGn TGGATATATT GCATGGATnC	400
	(2) INFORMATION FOR SEQ ID NO: 2974:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	,
40 .		
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:	
	GTATTCTTTA GGTAATGCAA CTTTTAATCC TTTAATATCT TTACCAATTT CAGATGTAAA	60
45	GTCTACATCA TCAACTGGTG CACTTGTAGA GTCATTAACA TCTGCACCAG AAATAGCTTC	120
	TAATACGATT GCATTATCTT TTACATTTCG AGTCAATGGA CCAATTTGGT CTAATGAAGA	180
50	TGCAAAAGCA ACTAATCCAA ATCGAGATAC ACGACCGTAT GTTGGTTTCA TACCGACAAC	240
	GCCACAATAT GGCAGCCGGT TGTCTAATTG AACCACCTGT GTCTGGAACC TAAGCTAAAT	300
	GGTACTAAGC CAGCTGCAAC TGCTGCTGCA GATTCCACCT GANGGAACCA CCTGGGCACG	360

(2) INFORMATION FOR SEQ ID NO: 2975:

55

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:	
	GAGATCGCGG GTTCGATTCC CGTCGAGACC GTACAAATGC CTATCCAAGA GATAGTTTTG	60
15	ThTTGCGTTT ARTATATAT TARTARAGA TATATGGACG ARTGATARTC ATATTGATTT	120
	ATCTGTTCGT CCATTTTCTT TAAAATGTAT GAACCTCAAG TAACTTAGTG GTTGGATATG	180
	AAAGATAAAC GTnGACAATA AAATCTTTAT TAGACGTACA AACATATGCT ACTGTCAACA	240
20	TATTICTICG TIGIGATATG CCACCAGICC TCCATAACAT CAATIGITAA AGTAACGAAT	300
	AACGAATAAT GATATTThAT TTCTGAGCCA TGACGTGCCA CTAGAAGTTG CCCATTATCC	360
	T	361
25	(2) INFORMATION FOR SEQ ID NO: 2976:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:	
	TGCTGCTTCT GAAGCGGAGT AATTGTGTAT ATCAAATGTC GCTTTTTGAT CAGGAACATG	60
	ATGTAAAGGT GTATATGTTT CACCTGTTTG CTCATCATGT AACACGGCAT GCCTATGACT	120
40	GAATGTACCA CGTTCACTAT CTTGACCAGT TAAGCGAATC GGTGTACCAT CTTGTAAAAT	180
	TGTCGCAAAT GCAAGTmGTT CTGCTTGTGC CCAATCAACT AAACCATCTT CTTTATTAAA	240
	CGGCTCATGA CGCTTCTCAA GAACTTTGTT TAACTTTTTm CAAAATGTTA AAGCCATCCG	300
45	GATATGTTAA CAATGCATCA TTATTTCTTT CAAGTGATCC AAAAGTAAAG GnTTGT	356
	(2) INFORMATION FOR SEQ ID NO: 2977:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

A.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:	* . =
	CTTTAGAGCG ACACCTAGTC ACTGCAGCAA GCTATTTCTT TATTTGCTAT GCTATANATC	60
5	GTTAATTACT AGACCTATTG CIGGTAGATT GATGGATGAT AAAAATGAAA ATATTATTGT	120
	CTACCCAGCA TTTATCATGC TTTTCCTTTC ATTTGTATGC TTAATTTCAA GCTATCAAAG	180
	CTGGTTAATA TTACTTGCTG GTGCTTGCCT AGGTTTAGGG TATGGAAATT TATCATCTGC	240
10	AATGCAATCT ATTGCGATAA AAGTCTCACC CCCGATTAAA TATGGTATCG CGACATCTAC	300
	TTTTTACGTT GGTCTAGATG CCAGGTGTCG GCTTCGGTCC AGCATTCCTT GGGTTAnTTA	360
15	CGCAGnGTTT T	. 371
	(2) INFORMATION FOR SEQ ID NO: 2978:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:	
	TTGTAATTTC ATGATTACAC CTCAATTGTT CTTGTTGTTA AAACTCAATA TTTAATTGTC	- 60
	TGCGCTCAAT AATTTGTTGT TTAAGTTGCT CAATATGATT TGATTGGAAT TCTTCCAATA	120
30	ATGCTTTTGC TATTTCAAAT GCTACGACAT GTTCGCAGAC GATACTTGCT GCAGGAACAG	180
-	CACAACTATC AGAACGTTCA ATTGTTGCTT TAAAGTCTTC TTTAGTATTA ATGTCTACTG	240
<i>3</i> 5	AATTTAATGG NTTATATAAC GTTGGAATTG GNTTCATTAC ACCATTACGA TAATTGGCAT	300
-	CCATTGACAT ACCGCCTCTA ACCACCTAAG TGATTAGANC ACGATAATAC CAATTCACTA	360
	TATAT	365
40	(2) INFORMATION FOR SEQ ID NO: 2979:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>50</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:	
<i>50</i>	TGATTATATA AATCTAACCA GCCAAGTTTC GTCTGCGGTG AGACATTGAC ATTAATTGCT	60
	GCAGATAATG ATTTAACAAC ATGTGTGGCA TGTGATTCAT TAACGATGAC AATATCATGT	120

	TGGCGATGGG TAACATTGTT AACATTGCTT CATTTAAAAC GATATCGAAT TGATTGTCAT	240
	CAAAGGCAA TTTAACAGCA TTCGCTTGTT GAACTTGAAT ATATGATTCA nGACCTGCTG	300
5	CGGAAATGTT TTCCGTGCTT TTTCTAAGCC TTCnTATTAT ATCAACGCCT GANGTGACAC	360
	CANAGTGTGA GCCAGATAAA TAGAGGTGTG CACAGATACA	400
	(2) INFORMATION FOR SEQ ID NO: 2980:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:	
20	TTTCTGCTTT TGATAATCTT TCATCAATGC AAAAGCTACA TTGGACAGTC CTATAATGGA	60
	AATAATGTTT ACAATTGCCA TTAAGCCCAT AAATAAGTCT GCCGTATTCC ATACTGTTTC	120
	TGTTTTTACA ACTGCACCGA CAAAGACAAG TACTACAACA AGACATCTAA AGATAAATAA	180
25	TATTACACGG TTTGTTGATA AAAATTCAAT ATTAGATTGA CCGTAATAGT AATTACCTAC	240
	AACAGATGAA AATGCAAACA GTGnAACGCT TATTGGTTAA GAAAATACCT CCAGCAGAAC	300
	CTAAATGCTC CTTAAGTGCC GATTGGGTAA CTGCAACACC nTGGAGGGCG TTTATCACCA	36 0
30	AATTTnCGTC CCGAATATAG TAAA	384
	(2) INFORMATION FOR SEQ ID NO: 2981:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs	**4
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:	
	AATTCTAACG ATATCACCAT TTTTACAACC ACGTTCTCTA AGCGCATCAT CAATACCCAT	60
45	CGAACGCATT TGACGAGCAA ATCGACGTAC TGCTGGATCA CTGTTAAAGT CAGTCATTTT	120
	AAACATTCTT TCAATAGCAT TACCACTTAC CACATAAGCA CCATCATCAT CTCTTGGAAA	180
	TTGTAAATTT ATCTTGTGAC GGTGTATGTT TATATAATAC TCGGTTAATG CCAACTGACT	240
50	CCTCTTCTTC AACTGTGGAG TCAACATCTT TATATTCTTC TGAATTTATC TGCTTATTGC	300
	ATATGAATAA TTGnnCAATG ATTATCACGC GTTATTGTTG GAAACTGGGA TTAACTGGCA	360

(2) INFORMATION FOR SEQ ID NO: 2982:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982: CCTCAACCGC TITACAGCCA ACCGGCGAGC GCTGNACATG GATCGCCTGG CCCATGCCCA CGCCTTGGGC NCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT TTNTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTGTT GTTGTTATTT TAAAATAAAT TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:				airs	389 base p ucleic acid ONESS: doub	EQUENCE CHA (A) LENGTH: (B) TYPE: no (C) STRANDE (D) TOPOLOG		5
CGCCTTGGGC NCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTGAAG ATAACAAAAA CGTGCGTACT TTNTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTGTT GTTGTTATTT TAAAATAAAT TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATAT CGATTTAATAA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:			2982:	SEQ ID NO:	SCRIPTION:	SEQUENCE DE	(xi) s	10
ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT TThTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTGTT GTTGTTATTT TAAAATAAAT TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	60	G CCCATGCCCA	GATCGCCTGG	GCTGnACATG	ACCGGCGAGC	TTTACAGCCA	CCTCAACCGC	-
ACCTTCCATT GAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT TTHTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTGTT GTTGTTATTT TAAAATAAAT TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	120	g CGTTAAATAA	TCTTTAATTG	AGTTACGGTA	TAATTGCTGC	nCATCATTAT	CGCCTTGGGC	15
TIGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	180	A CGTGCGTACT	АТААСААААА	AAATTTGAAG	CTTAAAATTT	GAAAACACTC	ACCTTCCATT	15
AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	240	TAAAATAAAT	GTTGTTATTT	ACGTTTTGTT	TATTCGCTTA	ACCGAAATGT	TTnTGAAATC	
TGAATTCCGT ATTTGAAGTC CTAATGGAA 25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	300	C TGTATTTTAA	TGTACTTAAC	CATCTTATAA	ATCCGCACAA	TAGTTTGTTT	TTGATGCAAT	20
25 (2) INFORMATION FOR SEQ ID NO: 2983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	360	I TAAGTTGGCC	TTAACACAAT	AACTGTGATT	GGCATTCCAA	AATACAGTTA	AGAGAAAAGA	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGCC CCATTTCCAT CGGGTTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	389				CTAATGGAA	ATTTGAAGTC	TGAATTCCGT	
(A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983: ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGNC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:				983:	Q ID NO: 2	ATION FOR SI	(2) INFORMA	25
ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGAC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	1.* s.		,	airs	379 base paction of the 379 base packed acid (NESS: doub.)	(A) LENGTH: (B) TYPE: nu (C) STRANDE		30
ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG GATATACAGA TATCTATATG TTAAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGAC CCATTTCCAT CGNGNTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:			2002.	SPO ID NO. 1	CRIDTION	POHENCE: DE	(vi) c	
GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT CGnGnTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	60	r caaccggtat		111				35
CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT CGnGnTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	120	3 AAAAAGAATG	TCGTATTTTG	ATAGAGCCGC	ATTGCTAGCT	TGCCAATGGG	ACTTATGTGA	
CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG 45 CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT CGnGnTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	180	A AAAATAAAGT	ATGGACTGGA	GCTATAAAAA	TTAAAAGGCG	TATCTATATG	GATATACAGA	40
CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT CGnGnTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	240	r gttaattgat	AAATCTGAGT	CGATTTAATA	ATTTAATATA	GTTTTTGTAA	СТААААААТА	
CGnGnTCCAT TACCGCCAC (2) INFORMATION FOR SEQ ID NO: 2984:	300	r attictctag	CTGTTACTAT	TTAACAAAGT	TTTTAATTTT	AATACTCAGA	CATCAATAAC	
(2) INFORMATION FOR SEQ ID NO: 2984:	360	CCATTTCCAT	AAGGTCCGnC	ATAATTAAGG	TAGTTTCAGC	CATTAAACCT	CTTCACTGAT	45
	379				, , ,	TACCGCCAC	CGnGnTCCAT	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			-	S: airs	ACTERISTICS 374 base pa cleic acid	EQUENCE CHAP (A) LENGTH: (B) TYPE: nu	(i) SE (50

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:	
5	ATGCTGAAAA TATGGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC	60
_	ATATTTTCAT ACATTGGGAC CCGAATTGAC TTCAGCATTA CAGCAAATTG ATTATTTTGT	120
	GGCTGGTATT GGCTCTGGCG GTACATTTAC AGGTACGCAC GTTATTTAAA GCAACATCAC	180
10	GTGCAATGTT ATGCCGTTGA GCCAGAAGGG TCCGTGTTAA ATGGAGGGCC AGCTCATGCA	240
	CATGACACTG AAGTATCGGT TCTGAGAAAT GGCCGATATT TTTAGAGAGA CGCTTGTAGA	300
	TGGGnTATTT ACGATTAAGA TCNAGATGCC TTTCCGAATG TCAAAGTTTG CTATAATGAN	360
15	GGTGTAGTAA GCAG	374
	(2) INFORMATION FOR SEQ ID NO: 2985:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985:	
	GGAGCCACCA TTGGAGCANG TTACGGTGGA AAAGATACGG NAAGGTTNGT ATGACTGTAN	60
30	GTCTTGGATA GAGTAACAAA CCTAATTTGT TAACTCTAGG CCCCATATGT CGCAGTACCA	120
•	TCTGCATGTG TTGTTACATT GTATGCATTT GTTTTACTTG GCTTCTTGLA TGTCGGGCGA	180
	GCTCCGTATG ACACTTGACC GTTTGCATGT GTTGTTACGT TGTATGCATT TGTTTTGCTT	240
35	GGCTTGTTTT GTGTTGGGCG AGCGCCATAT GATACTTGGC CGTTTCCATG TGTTGTTACG	300
	TTATATGCGT TTGTTTTGCT TGGCTTGTTT TGTGTCGGAC GAGCTCCGTA TGATACTTGG	360
40	CCGTTTGCAT GTGTTGTTAC ATTGTATGCA TTCGTTTCGC TTGGCCTCCT GTATGTCGGA	420
40	CGAGCTCCGT ATGATACTTG ACCATTGCAT GGGTGGTACG TnnG	464
	(2) INFORMATION FOR SEQ ID NO: 2986:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

0

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

	AACTATTATA TTAACATACA ATGTAGGGAT GTGATGCGCG TGAAGTTTAG GGATAAAGAT	120
•	AATCGTCAAG TTAATTTGAC ATTTAAAAAG GATAATGAGA TAGCAGATGG CAATCATGTG	180
, 5	CTAGCTATTC CAACGTTTAA AAATCAATTG CTTTTTACCA AACATAATTT ACGGGGGATT	240
	GAATTTCCTG GTGGTAAAAG GGAACGCGGG GHAAAGTAGT GCTGGAAGCA GTTACACGTG	300
	AATTATATGA AGAAACAGGC GCCAAATTGA AAAATGnTTA TTACATAGCA CAATGTnCC	359
10	(2) INFORMATION FOR SEQ ID NO: 2987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	; ;
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:	
	TAGAATTCTT CTAATGAATG AGCTTCTTTA GAATGATAAC CATAACGAAT TCCGTCAAAA	60
	CGAGAAAGGT TTGACGAAGC TTCTGATGAT GCAATCACGT AATATGATGG AATACCAAAT	120
25	TTAGTATTTG GCAATGATAC TTCCTCAACG ACAGCACCTA AAGATTTTAA AGTTTCTACA	180
	GCGTTTGAA CTGCTTCTTT TACGTCATCA GCTACACCTT CACCTAAGTA TTCTTTAGGT	240
	AATGCAACTT TTAATCCTTT AATATCTTTT ACCAATTTCA GATGTAAAGT CTACATCATC	300
30	AACTGGTGCA CTTGTAGAGT CATTAACATC TGCACCAGAA ATAGCTTCTT AATACGGTTG	360
	CATTATCTTT TACAnTTCGG GTCATGGnCC CATTTTGGTC	400
35	(2) INFORMATION FOR SEQ ID NO: 2988:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3.77 base pairs (B) TYPE: nucleic acid	٠
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:	•
45	ATTCATTCAT AATTATCAAT CCTTTGTGTT AAATTACTAT ATAAATAGTG TACGAATTTT	60
	CGAAATTTGT GATCATAAGT TTATTCAATG CTAAACAATA AGGTTGAGAC ATAATCGTAT	120
	CTCAACCTTG AAATTATTAT ACGTTGACGT CACTAGTCAT TCAGTTTTCT TAATGCTGCT	180
50	ACAATCTCTT TTTTAGTATC TTGTACTTCA GAAGCTTGCT TAATCACTTT TGCAGGTGTA	240
	CCAGCAACAA CTGCACCAGC TGGTACATCT TGTGTCACAA TCGnGCCACT GGCAACAATA	300

	MONTHIANC COTOGRA	377
	(2) INFORMATION FOR SEQ ID NO: 2989:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:	
15	CCAGGNACCT GGACACGCCG GGTCTTATCA TCAATAATAG TAGCATGACA AATCTACTAT	60
	TTTTTCGCTA ATAAGTGGAT GTAATGCTAA TAATGTTGCT GTAGGGAAAC AGCCAGGATT	120
	AGAAATGAGC TTCGTTCCAT TGTTATCAAA CGATTGCCAT TCTGAAATGC TGTAAATAGT	180
20	CATGATTCAA ATCATCTTGT GCCTGCAGCA GTTTCTTTGT AATATGCTTC ATATATTTCA	240
	CGNTTCTTAA TTCTAAATGC GCCAGATAAA TCGATAACAT GAATACCTTT TTCTACTAAG	300
	GGAGGGATAC ATGTTTTACT TACGGGTGCT GGTGTCGCAA AGAAAATTAC ATCAAn	356
25	(2) INFORMATION FOR SEQ ID NO: 2990:	•
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	74 E 2.
	(with appropriate and the second	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:	
	TCATTTTCCA AGTGAGACTC TGCTCTTGCT TTGGCTAATT TAGCTCTTTC AACATCAATT	60
	TCTCTTGCAG TTTCTGCAGT CTGAACAATG ATTGAAACTT TATCTTTTCT AACTTCAACA	120
40	AAGCCATCGC TTACAGCAAT ATATTCAGTT CCATCGTGGA AATTTCACTT TTACAAAGCC	180
	TGTTTTTAAA GCAGCTACAG TTGGGAATAT GTCCACTCAT GACACCTATC TCACCAGCTG	240
	TTGTTTGCAT AACAACGAGT TCAACATTAT CACGATTGTA AACAGAACCA TTAGGAGTGA	300
45	CAATATCTAG GTTTAAATGT CCATTATCCA TTCCnCCnGA ATTGGnTGA	349
	(2) INFORMATION FOR SEQ ID NO: 2991:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2991:	
	ATGGCCACGT TCATGCCAAT AGCTGTCGTA GTCGCATTTT CACGTTCTAG TATTGCATTT	60
5	TTTAAATGCG ATGTGTGCTC TACATAACGG CAAATTTTAA GTTTATGAAT CAACATATCA	120
-	ATTGCTTCGT TTCGAGACAT GTCGTGGATC AGTAATTATC ATAGTTTGTT GATCAAAAAC	180
10	ATGAGAAGGT TTATTGAGAT GTGAATGTTT CGCGGTGTTA TCTACATTGT CAACCTCTGT	240
	ATCATGTTGT GTAATATCTG TATCATGAAG TTGCGGTTGC GCTGGTGCAT CTACTGCTAT	300
	AACTGGTGTA TTGCGTTTTA ATAATAGTAC AGTAGTMCAT TGTMGACAAG ACTMACCGAC	360
15	TTA	363
	(2) INFORMATION FOR SEQ ID NO: 2992:	
0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
:	(D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:	
*	AAGTTTATTT TAAAATTCGT AATAAAATA ATAAACTCAT CGAACGATTT AATGGTCTAG	60
30	GTTTCCATAT CAACTATGAG TACATTAAAT TCAAATTCGA ATCACGTAAC GTAAAAGATC	120
	AAACAATCCC TGAATAAAAC ACCAAGCAAA TACCCTACAG TACATCATTA GCATGTATTG	180
61	TGGGTTTTTC TACTTTTTGT AAATATTGAn AATTATNAGT AGTTGTTTTT TACTATTAGG	240
35	GCAGAATGCT TTACAATAAC ATGCAAGTGT CAATTAAGGG GAGCACTTGC ATAAATAGTA	300
	TAGGIGAGTG AGTAGTCCTG GCCATTTCCT GGAATTCCTT AATCGGCAC	349
40	(2) INFORMATION FOR SEQ ID NO: 2993:	-
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid	:
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) lorologi. linear	:
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:	
50	TTTGTGCAAT AAGCGCTTTT TGTTCGTTTG CTTTTGTTGC TAATTCATCT TTCGCAACAT	60
	CTTTAATTGT TGTATCTGCA GTAATACCTT GAATATCAGC AACTGCTTGA TCTTTAATTT	120
	ACCURA NORMA AUTORACTORUM MOMOCO AUTORA A CAMAMOTORUM AUTORACA AUTORACIA AUT	

	TTGCTTGATT TTGAGTTGTC ACAGCTTGAT CAACATCATT TTTAGCATTG ATTTAACCGC	300
	TGTGCTGGTT GCGGCTTGAA TTGAATCTTC CAGGCTTCGC TGACTACACA TACACAGTGA	360
5	GNGNAATATT TCGGCTGAAC GCGTGCATGT GAANGCTCT	399
	(2) INFORMATION FOR SEQ ID NO: 2994:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:	
	AATGACAGGA ATCGTCGTTG CCTTTACTAA TTGACCAGTT AATTCAAAGT TAGGTCCGGA	60
20	CATTITGCCA TCTTTAGCAA TATCAGTATA TATAATGCCG CCAAGAGGTA TATCCGATAA	120
	CCGTCTCACA AACTAAATAA ATTTAACTCT GTGTCCTCTT CCCATCCGTT CACTTTAATA	180
ne	TCTTCTCCAT AGGCATCAAC AGATAAATAA ATGCGACCTG GAAATGTATG TGCCATCTCT	240
25	TTAAGCCAAT CAGTATCTTG AATACCTTTC GTTCCAACTA TGCAATAATT AATCCCTGCG	300
	GCAAAGTAGT CCATGATTTG TGACTT	326
3 <i>0</i>	(2) INFORMATION FOR SEQ ID NO: 2995:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		£.,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:	
10	CTAATGCCGA TGAGCAAAAC ACAAGCATTA GAAATTATTA AAAAAGTTAG GTACGTATAC	60
	AACATTGATT TTGATAAACC GAAGTTAGAA ATGTGGATTG ATGTATTAAG TCAAAATGGA	120
15	GATTATCAAC CAACTGTAAA AGCGGTAGAT GTTTATATCA ACAGTAACAA CCCGTACCCG	180
	CCTAACTTAC CAGCAATCAT GCGTAAGGAA CCTAAAAAAG TATCTATCGA GCCAGTAGAT	240
	AACGAAACCG CTACACACCA TGGGAAAATG CAGAATGACC CGAATTGTCA GACAAGGAAA	300
50	ATAGCGCTAG ATAGTTCATG AATAGTTGGC AGATTGGGGC GAACGATGAT ACGNCATTCG	360
	ATTGAAGTCA TATCGTCGTA CTTAACACCG GACGTTnGAA	400
	(2) INFORMATION FOR SEQ ID NO: 2996:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	*
_		*
server of the same	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:	Table that is with the second stage to part.
10 -	GAATGTAAGT GTCCCTTAAG CATAGTGCTC CCACCTTAAA TTTTGTTACA TACTTTCATG	60
	GAATGTACGA GAAATTACAT CTAATTGTTG TTCACGTGTT AATTTAATGA AGTTAACAGC	120
	GTAACCAGAT ACACGGATGT TAACTGTGGG ATATTCTTCT GGATGTTCCA TTGCATCTAT	180
15	TAATGTTTCA CGGTTAAATA CGTTAATATT TAAGTGGTGA CCACATTGCA TTGCGTAACC	240
	ATCTAACATA CTAGTTAAGT ACGGTTTGAT CTCTGGTTCT TTACCTAATG ATTTGGTACG	300
	ATACTGATGT ATTGAAATAC CATCCTTACA GCATCGTAAG GGGTCCTAGC CACAGAACTT	360
20	ATGAAGAAAT GCACCTTTTn GGCACnGGCA TGCATGGGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2997:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:	
	ATGATATTAA CCTGTTTACA AGATGGTTGA TACTTGCGCA TGANATTTGA ATCTTCAACA	60
35	CCATATTATT ATGGTACATA CGAAACTGAA AATGAATCCA TAGTTACTGA CAAAGAAAAA	120
	ATCTTAGTAT TAGGCTCTGG ACCAATTCGA ATCGGCCAAG GTGTAGAATT TGACTATGCG	180
	ACAGTTCACG CCGTTTGGGC AATTCAAAAA GCAGGGTACG AGGCGATAAT TGTGAATAAC	240
40	AATCCAGANA CAGTITCAAC AGATTCTCAA TITCTGACAA ATTATACTTT GAACCTTTAA	300
	CTGAnGAGGA TGTGATGAAT ATCATTAATT TTGGA	∵335
45	(2) INFORMATION FOR SEQ ID NO: 2998:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2998:	•

	GCAGTAACTA ACTTTTGTAC AAAAGGATCA TTTTTATCAA CATAATGTGG TGGTTGGACT	120
	TTACCTAATT TCACTTCAAA GLATTGTTGA ATCTCATTTG CAAAACGATC CATAGCTTTT	180
5	TCAAATTCAA ATCCTTCTGG GTAGCGTAAL TGATACCGAA AAGACCTGCG TTTTCATTAT	240
	CATATGTAAT AACACCAATG TTAGTTGTCA CGTCACCCAT GGACATCTGT ATGGGAATTT	300
	CATTCCCANC TTTTCACCA AAATCNGGAA TTGAAATAAG TGAGCGATTA CGAAATGGCG	360
10	ACAAACGCCT GTGGCATTGA THGAGCAAGA TTHAAGG	397
	(2) INFORMATION FOR SEQ ID NO: 2999:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* :
2 0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:	
	AAAGCTGTGT TGGTAAAGAG TTTTGTCGAT TTGGTACGCA ATACACGACA CGACTTGGCA	60
25	TTCGTTTAGA AAAAACATTT GAATACATCG ATACACCTCA TAAATTCAAA ATGGGTGTAT	120
	CAGGCTGCCC AAGAAGTTGT GTTGAATCAG GTGTTAAAGA TTTTGGTATT ATCTCAGTTG	180
30	AAAATGGGAT TCCAAATCTA TATCGGTGGT AATGGTGGTA CAGAAGTTGA AAAAGCTGAA	240
	TTTTTAACAA CTGTAGAAAC AGAAGATGAA GTAATCAAAT TATGTGGTGC TTTGATGCAA	300
	TATTGANCGC GAAACAGGTA TATATGCNGG AAAGAACCAG CGCCCAGGTT AAGAAGACCT	360
35	GGATTTGAAA ATGTDAAAAG AAGTCCTTAC CTGGGCCCCG	400
	(2) INFORMATION FOR SEQ ID NO: 3000:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 506 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:	
	AACGGTAGTA TTACAGAAAG CTCTACTTAT GGTGATAATG ATACACCAGC GCCACCAACT	60
0	GACGAATTAG GTGGTAGTTG GACACTATGG AAAAATTTAG CGCGACAAAG TCCTGAATTT	120
•	GGTAATCCTG ATAAGTTTTG CCAAAATATT CCTAAAAAAA GTTGGTTTGT TTCAGCAACT	180
	TOTACAACAA ACAATAAAGA GATTATOGAT ACAATAGAAA GTATTTOTAA ACGTGACCCA	240

	AGTTTTACAA TCAATCGTCA GCMACAGTTT AAAGACCAAC CTGYAAATGA AATATCTACA	360
	TGGATTTATG CCTTATATYC AGATGTAAAC GGCGATTATA TTAAAAAGCC AATTACAGAA	420
- 5	TGTAGTGGTA ATGAAATATG CCAAGNATGG CTGTATCNCT TNGGTGTATC AACTGACAAG	480
	ATTGAAGACT TAGCAAAACA TGCGTC	506
10	(2) INFORMATION FOR SEQ ID NO: 3001:	1-
3.	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) MADALAGUE 11	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:	
20	ATTGATGGCA TCGAAAAACT TTAATAAGAC AACAAGTTGA TGAGATATAT GTATATAGGT	60
	TTGGCATGGA TTTCGATTGC AGTTAATTAG AATAGCTCAA TGCTATAAAT GTAAGTAGTT	120
	GATATGAAGA AACTAATGAA CTAAATGCAA GTATTGTCTA AAACAATCAT TTTATTGAAA	180
25	TTTAGTAGAG CTGAAATTAA TATAACGTCG TTAATTGAAT AACGCTTATG TTATAAGAGC	240
	ACTCATACCA DACCATAATC ATCTATAGNT ATAACAATTC ACGTATAAGG GGCTGTGTTT	300
30	GGCATAGCCC TTAGGTATAC ACCTAATTCC CATTAAAATA GTAGGGGNTT AAA	353
	(2) INFORMATION FOR SEQ ID NO: 3002:	.*
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	•.
35	1 n 1 n 1 n 1 n 1 n 1 n 1 n 1 n 1 n 1 n	-
	(D) TOPOLOGY: linear	
		. 1
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:	
	CAACAAAATG TCTATATGGT AAGTGGTAAA ACGAAAAATG ATGAAGACTA TTCATCAACT	60
	ATTTTATATA ACAACGAAAA AGAATTACAA AAAATTACTG ATGCTGCTAA AAAGCAAAAC	120
45	GGTGTAAAAT TAACGATTAA AGAAGAAGAA AAACAAAGTG TCTTTGTGAG TATACTTTCA	180
	ACATTAATTC CAGTTGTAGT CATAGCGTTA TTATTTCTTC TCTTCCTAAG CCAAGCACAA	240
50	GGTGGCGGTA GTGGCGGTCG TATGATGAAC TTTGGTAAAT CTAAAGCAAA AATGTACGGT	300
	GATNAATAAA CGTCGTGTTC GTTTCTCTGA TGTAGCCAGG GGCCAGATGN AGGAAAACCA	360
	AGGITTAATT GGAAATTGTT GGTTTCTTGG AAAGGTAATG	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:	
10	ATAACATCGG CACAGCAGCT AAAATAACCA TACCCAAAAT GAnTGTATCT TTAAACGTGC	60
	ACCGTAAAGn CTTCCGACTA GCCATGTATA AGCTTTGGCA GCAGATAATT GCTTCGTTGT	120
15	AATGAGTAAT CCTTGGACAA GCGCAATAAA CAACGTTTGC ATCGAAATAC CGATGATTAT	180
	GAGTGTTGTC GGGCGTATTT GTCCTTTCGT TTGAAACACT AATAGTATCA TCATTGCAAC	240
	TGCGCCACCT AATACTGCAA ATAGTGGAGT AAATGTATTG TTAAAGGCTG AAAATGCAAT	300
20 -	AAAGACAACA GCACTTAAGC TAGCACCACC TGTGATACCG CTAATATCAG GTGAGGCCAA	360
	TGGnnTTTTT TTATACATTT TGGCAACATT TAACCACTTC	400
	(2) INFORMATION FOR SEQ ID NO: 3004:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:	
05	CTAATAACAA ATGCGATGAT GATTAATACT AATTTACCTG CTGCTAATAC AGAATCTCCA	60
35	AGGAATGAGA AGAATGGTTG ACGTTCAACT TCATTGTTTT TAAGACTGTA GATAATATCT	120
	TCTTTCTCTT CAACACTTAC TGGATTCAAC AAGCATGACA CAATAATCGC GTTAACGGAT	180
40	ATTTAGTGGA ATTGCCGTTA GTACCAGTTC TCCTGGTACC ATTTGTACAT ACGCACCTAC	240
	AATAGCTCCC GATACAGAGC TCCATTGACA TCATTGCGAT TGTTAATACA CGCATTTCAT	300
	ThCAGACGTT TTAGTTGCTC ACTTGGATAC GGGCTAANGC TTNCGTGAAT TGCC	354
45	(2) INFORMATION FOR SEQ ID NO: 3005:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTCAGCTTA TTGAACAAGG GACACGTGAA TCAGTCTTGC ATCATCCAGA ACATGTTTAT	60
	ACGAGATTTA TTATCAACGA AGAAGAAGAT TAATGATCAT TTTAAACATG TGATGAGGGG	120
5	TGATGTACAT GATTAAAATT AAAGATGTTG AAAAGTCATA TCAAAGCGCA CATGTTTTTA	180
	AGCGTCGTCG AACACCTATC GTGAAAGGTG TGTCATTTGA GTGTCCAATC GGTGCGACGA	240
10	TTGCGATTAT CGGAGAAAGT GGTACGGNTA AATCGACGTT TGAGTCCTAT GATATTAGGT	300
10	ATTGAGGAAC CGGATAAAGG TTGTGTACCC TTAAATGATC CACCGATGCn TAAGAGGAAG	360
	TGAGCCGCCA CCNATTGG	378
15	(2) INFORMATION FOR SEQ ID NO: 3006:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1785 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: IIDPAT	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

. 60	IIAGGCGGII	IMMAGCCCCC	INTIGGGCCI	INICCOGNAI	GCCAAGCCII	ACIIIAGIIG
120	ACTGGAAAAC	GTCATTGGAA	ACCGTGGAGG	CCCCGGCTCA	GATGTGAAAg	TTTTAAGTCT
180	AGAGATATGG	TGAAATGCGC	TGTGTAGCGG	TGGAATTCCA	AAGAGGAAAG	TTGAGTGCAG
240	TGCGAAAGCG	GACGCTGATG	GTCTGTAACT	CGACTTTCTG	GTGGCGAAGG	AGGAACACCA
300	AGTGCTAAGT	GTAAACGATG	AGTCCACGCC	ATACCCTGGT	ACAGGATTAG	TGGGGATCAA
360	GCCTGGGGAG	TAAGCACTCC	AnTAACGCAT	TAGTGCTGCC	TTCCGCCCCT	GTTAGGGGGT
420	GGTGGAGCAT	CCGCACAAGC	TGACGGGGaC	TCAAAGGAAT	AGGTTGAAAC	TACGACCGCA
480	TTGACAACTC	TTGACATCCT	TTACCAAATC	GCGAAGAACC	TCGAAGCAAC	GTGGTTTAAT
540	TGTCGTCAGC	GGTGCATGGT	AGTGACAGGT	CGGGGGACAA	GCCCTTncTT	TAGAGATAGA
600	CTTAGTTGCC	AACCCTTAAG	CAACGAGCGC	TTAAGTCCCG	AGATGTTGGG	TCGTGTCGTG
660	GGTGGGGATG	ACCGGAGGAA	. CCGGTGACAA	AAGTTGACTG	TGGGCACTCT	ATCATTAAGT
720	GGACAATACA	GTGCTACAAT	GGCTACACAC	TTATGATTTG	ATCATGCCCC	ACGTCAAATC
780	TTCGGATTGT	TTGTTCTCAG	TCCCATAAAG	GTCAAGCAAA	AAACCGCGAG	AAGGGCAGCG
840	GCATGCTACG	TCGTAGATCA	TCGCTAGTAA	GAAGCTGGAA	TCGACTACAT	AGTCTGCAAC
900	TTGTAACACC	CCACGAGAGT	GCCCGTCACA	TGTACACACC	TCCCGGGTCT	GTGAATACGT
960	ATGATTGGGG	GGTGGGACAA	AGCCGTCGAA	TTTAGGAGCT	GGAGTAACCT	CGAAGCCGGT

	TATATTCGGA ACATCTTCTT CAGAAGATGC GGAATAACGT GACATATTGT ATTCAGTTTT	1080
	GAATGTTTAT TTAACATTCA AAAAAATGGG CCTATAGCTC AGCTGGTTAG AGCGCACGCC	1140
5	TGATAAGCGT GAGGTCGGTG GTTCGAGTCC ACTTAGGCCC ACCATTATTT GTACATTGAA	1200
	AACTAGATAA GTAAGTAAAA TATAGATTTT ACCAAGCAAA ACCGAGTGAA TAAAGAGTTT	1260
	TAAATAAGCT TGAATTCATA AGAAATAATC GCTAGTGTTC GAAAGAACAC TCACAAGATT	1320
10	AATAACGCGT TTAAATCTTT TTATAAAAGA AAACGTTTAG CAGACAATGA GTTAAATTAT	1380
	TTTAAAGCAG AGTTTACTTA TGTAAATGAG CATTTAAAAT AATGAAAACG AAGCCGTATG	1440
15	TGAGCGTTTG ACTTATAAGN ATGNNNGATA TGTTGAATAT CCATATCTAA AGCTAGATCT	1500
	AAACTTTGTT CAAAATCTTC AATCGTCTGT TTCGGTAAAT GATACATTAA ATCTAAACTG	1560
	ATTGATTTAA TACCTGCGTT TTTAGCATTT AACACCGAAG TGTAAATATC TTCAGTATTG	1620
20	TGCGTTCTAC CTAAAACAGA CAATAACTCC GGCTTGAATG TTTGAACGCC CATTGAAATC	1680
	CTTTTTACTC CATATTTCTC TAATAGTTGG ACTTTCTCTT TAGTTAACTC ATCAGGATTT	1740
	GCTTCAAATG TATACTCGCC TGTGATTGTA AACGTATCAC GTATT	1785
25	(2) INFORMATION FOR SEQ ID NO: 3007:	en e
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs	Æ.
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	t_a^t .
30	(D) TOPOLOGY: linear	¥ .
35	m (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3007:	.*
	TGCAAAAAAC ACAATAACGA TAAATGTTCC CATTGATCCT ACAGCATCGC GAACATTTTA	60:
	CCTAAGTCTT TTGTATTTTT AATTTCTTTG CTTAAAATCC CATAAACTAA TCCAGGTACT	120-
40	AAAAATACGA CAAGAATAAT TAATCCGACA CCGTTAATTA ATGGCGATCG TCTAGTAAGC	180
	TGCCTGTTTT AGCATTTCTT AAAAAGCTAT GTCAGGAATG GCTGTAATAA TTAATAAAAT	240
	AATTGRGCTA TGAACTGATA TTTGCCATTT TAAAANATGT GCTCTTTGTC AGAATATGTG	300
45	AGATGTNCTC ATGGCATCAT GCATTAAACT GCATCATATT TTCCTAATCT AGGATAATGA	360
	(2) INFORMATION FOR SEQ ID NO: 3008:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

·· ¿.;

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:	
*	TTGCCTTCAA ACACATACTT GTAGTCGGAT GATCACCTGT TCCAAAAGnC ATACCTGGGT	60
. 5	CGAGCTCAAT GCAAAGCTCT TCATCCGCTT CTTTAGCATA TGTTTCCCAA CTAGGAACTA	120
٠.	TTGTGAACTT CTTCGACGCT CGGGAATGGA TGGAAATAGT TTTTCCATTC ATTTTCCCAA	180
	TCCGTCTCTG CAATAATTTG CTCACTGAAT TGAACGTTAT GTTGATCAAG TTCATCTAAA	240
10	TTTAATAACT CATCTTTGAA TTTGCTGTCG CAACTGTATC ATCATAAGTG CATTTCAGTA	3,00
	AAATAGGCTT nGCAAnCTTA CTCCCTTATC TGGGATAAAG CCTCGGTTTT	350
15	(2) INFORMATION FOR SEQ ID NO: 3009:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3009:	
25	TCTTATATCA CCAGGAATTA ACACTGCCTT TTGACCACTT TCTTCAATCA CTTGGCGTAC	60
•	TTCTTGTGCA TCTTGTTCTT CACTCGGAAG ATAGTTAATC GCTACATCTG CACCTTCTTT	120
	AGCATACGCA ATTGCTGCTG CACGCCCTAT TGCTGAGTCA CCACCTGTGA CTAALATTTT	180
30	ATAGCCTTGT AAGCGTTGAT GACCTTGGTA AGACGTTTCG CCACAATCGG GTGCTGGCGT	240
	CATTTCAGAT TGTAAACCCG GTACCTCTTG TTCTTGTTTT TCaTAATCCG TTGTTTTAAA	300
35	TTTTGTTCnA GGaTCTkGAG CkGCCAtTTT TtGACAyCtC CGTATnCGCT TAATGGGTAT	360
	CATTTACCCC AATCTTCCTA AGG	383
	(2) INFORMATION FOR SEQ ID NO: 3010:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:	, .
	TAATTCAACG GGAATTTTCC CTTTGAAGTT AACATAACGG TAGGCTGCTT TAACAGCTTC	60
50	ATCATCGGGC GCTTCGACAT CTTCTAATTC ATATGCAATG CCCAATGTTT TCCACTTATG	120
	AND COME A COMPANY OF CAR CAR PROPERTY AND COMPANY OF A CARLE OF A	

	TGTCGAATCC ATACCAGGTG GTTTCATATC TGACAGTTTG CGCGCGAAGT TAAAGGATGT	300
	GTGTATTAGG GCTTTCCCGG TCCATCCAAA TANGGTTGGT CCATTAATCC ATAAGGTTTT	360
5	ANAATCNAAA TAATAATCCA GTCCGGTA	388
	(2) INFORMATION FOR SEQ ID NO: 3011:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. •
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:	
	ACTGCTGTAA CGTCAGTTGA TCTTTTCATT CTTGGTTTAA TTTCTGAGAC GTTACTTGGT	60
20	TGnGCnAnGC CACCAATTGC CATACCGACA GATTGGAAGA ACAATGCATC AGTTCCACCA	120
	ACACCAAAGA TGTCACCAAG TACAACGAAA CCTACATATC CAACTGTAGA TACAATTAAA	180
	ATACCCATTG CTTTTTTAAA TTCAGGATTA TCTGATTGAC GTnCATTTTT AGCTTTAAGT	240
25	GAAGTAAGTG CTACACCAGT AACTAATAAT ATCATGGCGA TTAAACCAAA GATAATTTGA	300
•	GTCATTGAAG ACCATTCACC TAAAAAGATA ACGCTGGAAT AATGGTGTAC CCAACTAATT	360
20	GGCATACCTG GTAGGAAACT GGGCATAGGT ATTTGGATAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3012:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
		-
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:	
	TTATCGGATT CGTTAATACT GGCGGTTTAC GCAATAGTTT AGATGTAGAT GATAACAATG	60
	TGCCTATTAA ATTTAAAGAA GAGTTCGAAC CTAGAAAGTT TGTTTTCACT AACGGCGAAA	120
45	TTAAATACAA TAGCAATTTC GAAAAAGAAG ACGTACCGAA TGCATCAAAC CAACAAAGTG	180
	CGTCAGATTT AAGTGATGAG GAACTTCGCG GAATGGTTGC GAGTATGCAA ATGCAGGTGG	240
	CACAGTAAAC GTATTAACAA TGGGATTAGC TCAACCAAAC GCTATGTTAA CACCACAGTT	300
50	GACTGACTGG AAACTACCAA ACCAGTACTG AGGGGnCGTT AATAATGAGT GTTTCCACTT	360
	AAGCATAAAC TTTTGTTGGT CTTAAACGGC ATTAGTGTCG	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	40
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:	and a chief with a chief of
10	GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC	60
	AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC	120
15	TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT	180
	GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA	240
	CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA	300
20	CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGNAATAA TGGGTTGNCC TAAGTAATGG	360
	CCGACCAAGG TCCTTTCCAn ATCCACCAA	389
	(2) INFORMATION FOR SEQ ID NO: 3014:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
30	(b) Iolobool. Illigal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:	
35	AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT, CAAGCTGAGC	. 60
	TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG	120
	ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA	180
40	TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT	. 240
	TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG	300
	CACTCATACT NGTTGCNCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT	360
45	GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3015:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:	
•	ncctatetet ggtcgagagt ctttgagetg aaaaatgtga cacacaaaat tgcaatggna	6
5	TCAACAAATG TTTCCCATTG TGGATGGTCT TGACTAAGTA TTTGGTGTTC AACTTGGTGA	12
	TTTGCCATGA CTAATACCAT GTCATTTGTA CTTGTATCGC CATCAACAGT AATCATATTA	18
	AATGTATGGT CAGTCGAAGA TTTTAATAAT TGATGAAGTG TATTCGATTC AATCGATGCA	24
10	TCGGTTGTTA TAAAAGCAAG CATGGTAGCC ATATTTGGGT GAATCATACC TGAACCTTTG	30
	GTGCTACCAC CAATTGTAAC GGTTTACCAT CGATTTTAGT GATACAGCGA TATGTTTTGT	36
15	ACAGGTATCA GTGTTAAAA	37
	(2) INFORMATION FOR SEQ ID NO: 3016:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:	
	CATATAAATT GCTAACGTGC CACCATTCAC TAAGGAATTG ACATCCACTT CATTTCTTC	60
	TGAATCITTA AAGTGACCTG TAGAAAATGT CACACTTTTA GCAACTGTAC GCATTGTCAA	120
30	ACCTGTCTGC ATAGTAGCAA CTGCTGCGCT CGCTGATGTC ACCCCTGGTA CAATTTCAAA	180
	CGCAATATGA TGTTCATTTA GTATGTCGAC TTCTTCTTGC ACACGACCAA ATATCGCTGG	240
35	ATCGCCAACT TTAAGTCTAA CAACCTTGTT ATATCGACGC GTGCTTCCAC GATACAGTCA	300
	TTATTTTTCT GGCGGAAAAT GTTTGGAAAC GGCTTTTACC AACANGGTAA TTCAGAGGCA	360
	ATCGCAATGN AAATTACGGN TCACNAACGG TCATTGGATG	400
10	(2) INFORMATION FOR SEQ ID NO: 3017:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15 ·	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3017:	
	CCTTTTTCTC TTCTTTCATA TCTGCAAACG TGCATCAATT TTAGGATCTA AATCTCCAAA	60
	TECTTETEE ACTECTTEAC ACCETTEATA ATACAMACAA ACMININGOAM AMAACAMA	

	TCATTTAACT GTTCATCAGT ATATTTATCA TATGCTTTTG TTGCTTGTTT TAATTCTGCT	240
	TTAACACCAT CATCTTTTTT CGATGTCTTT GAATCATCCT TCTTACTATC GTCGTTCCCC	300
5	ACATGCAGCA	310
	(2) INFORMATION FOR SEQ ID NO: 3018:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
.*		•
15		- 1
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:	
	TCGCTTTGTA AATTCTGGAA CAAAGnCAGT CATGACAACA ATTCGTGTTG CACGTGCATA	60
20	TACTAAAAGA AATAAAATTA TAAAATTTGC TGGATCTTAT CATGGCCATT CTGATTTAGT	120
	ATTGGTTGCA GCAGGTAGCG GCCCATCTCA GCTCGGTTCT CCAGACTCAG CTGGTGTTCC	180
	AGAAAGCGTC GCACGTGGAA GTCATTACTG TACCTTTCAA TGATATTAAC GCCTATAAAG	240
25	AAGCAATTGG AATTTTGGGG TGATGAAATT GCCGCAGTAT TAGTAGAACC AATTGTTGGT	300
	GAACTTTGGG AATGGnnAAT GCCTCAACCT GGGATTTTTA GGAAGAGGGT	350
	(2) INFORMATION FOR SEQ ID NO: 3019:	
30	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	٠
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	.*
00		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:	
40	ATATCATGTG CCAGTGAAAG CGGCACTGGn CGGATATGGC GCACATATGG ACATTATGAA	.60
	AGAGTACCAA TTAATCATTT TAGCGCCACA AGTTGCGTCT AACTATGAAG ATATTAAGCA	120
	AGATACAGAT AGATTAGGTA TTAAATTAGC GArGACTCAA GGTGCTGAAT ATATCAAATT	180
45	GACACGIGAT GGCCAAGCAG CCCTTGATTT CGTTCAACAA CAATTTGAAA ATTAAGAATA	240
	GGAGTTTTC ATATGACTAA AACATTACCT GAAGGATTTT ATTTTTGGTG GAGCAACAGC	300
,	AGCATATCAA GCAGGAAGGT GCGACCAAAT TACGGGATGG GTTAAAGGTC GCGTGCATTG	360
50	GGGATACGGT ATTTTAGGAA GGAAAACTTA TTTGGTACCA	400
	(2) INFORMATION FOR SEQ ID NO: 3020:	

5	(A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:	,
10	ACGTTCGTCT TACGTTTAAC GCCATACGGT GTATTAGCAA TTATGGnCCA ACACATTATC	60
	GACAAGTGAC TTTGGCGCCA TTTGGACTTT AGGAAAAATT CTTAATCGCA TCGTACGCTG	120
	CATTAATTAC GATGTATATC ATTCACTTAA TTATTTTAAG CCTGTTAGGT ATTAGCCCAA	180
15	TTCGCTATGT TAAAAAGACT TTGGAAGTAT TAATCTTTGC ATTCACATCA CGCTCAAGCG	
	· ·	240
	CGGGTGCCTT ACCAATGAAT GTACCAACAC CAACCAGACG TCTAGGCGTG CCAGAAGGTA	300
20	ATGRCAATTT CGCTGCGACA TTTGGAATGG CGATTGGACC AAATGGGTGG GCAAGRAATT	360
		361
	(2) INFORMATION FOR SEQ ID NO: 3021:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, <i>.</i>
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:	
	CAATGACCAT GACCAGTTGA TTTGGAACAA TGATTGACAT TGGAGCTATG CATCAAGTTT	60
35	GTCTTTAAGA CTACTAAACC CACGAACCAT GTTAACCCCG TGGTGCACCA TCACCAATTG	120
	nctcgatcta attcagttaa ttcagattca tgttttttaa acgtttcttc taaatttaat	180
	AAACGTGnCT TTCATATCAT TCACTTTCAT TTGTGnCCAC CTCATAAATG TATATTATCA	240
40	TATTCACTCT TATTAAAGTA TGACTGTTGT TGGTGCTAAA AATGCTCCAA ATATTCGGTT	300
	TATTAGGCAC GATAGTTATA GAAAAACCTG ACAGTCTAAA GATGTCATAT AATCAC	356
45	(2) INFORMATION FOR SEQ ID NO: 3022:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:

	GTGTTTGGTC CAATATCCAT ACCTTCTTGG nTCTGCTGGA ATTGAATCAG ATGGTACTAC	120
	AGTGATTTTG GCATCATTAG NAAAATTCTT TAGTCAACTT TAGTGTCTAC TGGTAATACA	180
5	ATTTTATCAC CATGTTTTTC TAATAAATCT TTTGCGAGTC GGATTTTATC TTCTTCTAAT	240
	AATGAAATAC CAATTTCTTT ACCTTGCGCT TTTAAGAAAG TATAAGCCAT ACCTCCGCCG	300
	ATGATAATTT TATCAGCTAT GTTAACTAAT AA	332
10	(2) INFORMATION FOR SEQ ID NO: 3023:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 311 base pairs	
15	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	÷
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:	
	AAAGGTATTC CACAAGAATT AGCTTTGCAA AAATGCCAAA GCAAACAGAA GATGGNACAA	60
	TTTAAAGTGn CCTACAATCA TGAATGAGGA GGACGCGTAA GATGAGCATT CGCTACGAAT	120
25	CGGTTGAGAA TTTATTAACT TTAATAAAG ACAAAAAAAT CAAACCATCT GATGTTGTTA	180
	AAGATATATA TGATGCAATT GAAGAGACTG ATCCAACAAT TAAGTCTTTC TAGCGCTGGA	240
	TAAAGANAAT GCAATCAAAA AAGCGCAAGA ATTGGATGAA TTACAGGCAA AAGATCAAAT	300
30	GGATGGCCAA T	311
	(2) INFORMATION FOR SEQ ID NO: 3024:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 319 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronogi. Ilmeat	
40		
40	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3024:	
	ATTAGACATT ACAAGGTGCA GTACGTGCAA CATATTAGAC ATATTGAATT AAGTGGTCAT	60
45	Gnaaggtatt gacagttaaa aaagttgaac aattagaaga aatcgagggc ttaatattac	120
	CTGGTGGCGA GTCTACAACG TTACGTCGAT TAATGAATTT ATATGGATTT AAAGAGGCTT	180
÷0	TACAAAATTC AACTTTACCT ATGTTTGGTA CATGCGCNGA TTAATAGTTC TAGCGCAAGA	240
50	TATAGTTGGT GAAGAAGGAT ACCTTAACAA GTTGAATATT ACTGTACAAC GAAACTCATT	300
* .	CGGTAGACAA GTTGACAGC	319

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3025:	
10	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
15	TGTAATTGTT TGTGTTTACG TATTTCTGGT GGTAAGTTCC GTGAAACCCA ATGTCTATAT	180
	TCCCATTTAA TACGCTATTT ATAANTGTGT CATGTTCTAA TAAGCTCGGT ATGACATGTG	240
	TATCATTTTG TAAAATGAAC GTTTGGATAA GNGGGAGTAA CATGTGGGAT ACGTCACTCT	300
20	CATCAAGCCA TGTAGATACn	320
	(2) INFORMATION FOR SEQ ID NO: 3026:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:	
	TCTCAACAAA TGCATCCAGT ACTTAAATTG GCATTATAGT AATTTAAGnA CAATATATCA	60
35	ATATTTCTCC TTATCCAGCA ACAGCAAATT TATTGGTAAG GTGTACGATT GAACCTTTAG	120,
35	TCAATGAAGC AGGTACATTT GGATTGGCCA GGTGGATTTA CTTCAACTGA GCGCTTTGTG	180
	AGAATGGGCA TTTATGAAAG CAAACATTGC TCAAAACAAT GATAAAGAAA TGGATTTAAT	240
40	GAATGCATTT TATTTATTAG ATGCGGTAAA TATACCGATT GGAATTGTAC GTCCGCATGA	300
	TGCTGACAAT CACTATACGA TGTATCCA	328
	(2) INFORMATION FOR SEQ ID NO: 3027:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2413

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:

	ATTGAAAATA TGTGTTCTnT GTAAAATTTT AATCGTTCGC CACGATGCTG TTGATAAAAA	120
	TTCAAAAACT GGAGTTGATC TTCTAGTTCA ACATAATCAT CGTAATTAGA CATGTAACCT	180
5	TTGATTAAGA TTTCAAGTAC ATGATCTTCG ATAGTATTGn TTTTAACTTG TTGTTGAGCC	240
	GCTATATCTT CCATCGTGGA ATTGTTCAAG CAATTTTGTA TAAGTAATAT AAGTTCGATT	300
سيمهض وتجور سي	TAATGAATGT AGGTTTCATT AT	322
10	(2) INFORMATION FOR SEQ ID NO: 3028:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:	
	CAAGAATCTT ATACTTATCA AAATTTATAC TGTGAAGCGA GTCTATTGGC TAAAAGACTC	60
	AAGGCTTATC AACAATCTCG TGTTGGGCTA TACATAGATA ATTCGATTCA ATCGATCATT	120
25	TTAATACATG CATGTTGGTT GGCAAATATT GAAATTGCGA TGATTAATAC AAGGNTGACA	. 180
	CCTAATGAGA TGACGAATCA GATGAAGTCA ATCGATGTAC AATTGATTTT CTGTACCTTG	240
	CCACTGGAAT TACGAGGGTT TCAAATTGTA TCGCTGGATG ATATTGAATT CGCCChCCGG	300
- 30	GCnTATTACA ACG	313
	(2) INFORMATION FOR SEQ ID NO: 3029:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	÷
40		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:	
	CTTCCAAAGA AAAGACCACA GTTTTTGACG CATCAATATG GTGCAATTTT AGAGACACTG	60
45	TAGTTGCAGA AGATGGTTCA GTTGGACTTT GAAGACAATC GTTATACAGA AACACGCGTG	120
	CCGCTTATCC AATTAATCAC ATTGACAATA TTGTAGTACC ATCTAAAGCA GCACATCCAA	180
	ATACAATTAT TTTCTTAACT GCGGATGCAT TTGGTGTTAT TCCACCGATT TCAAAGTTAA	240
50	ATAAGACCAG CAATGTATCA TTTCTTGAGT GGTTCACTTC TAAATAGCTG GnCAGAGCGT	300
	COMORGA CAC ACCREACCAR CARCECAAD ACA TETTCENECA CCCTCTTCCG TACATCAACT	360

(2) INFORMATION FOR SEQ ID NO: 3030:

55

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3030:	
	TGATGGATTG GCTAGCAGGT GTTTACATTA ACTCATTAAA TGTTATTCAC TACATGCACG	60
15	ATAAATACAG CTATGAACGT ATTGAAATGG CATTACATGA TACAGAAATT GTACGTACAA	120
	TGGCAACAGG TATCGCTGGT TTATCAGTAG CAGCTGACTC ATTATCTGCA ATTAAATATG	180
	CACAAGTTAA ACCAATTCGT AACGAnGAAG GTCTTGTAGT AGACTTTGAn ATCGAGGCGA	240
20	CTTCCCTAAA TACGGTAACA ATGACGACCG TGTAGATGAT ATTGCAGTTG ATTTAGTAGA	300
	CGCTTCATGA CTAATTACGT GGTCATTAAA CATATCGTGA TTCAGACCTT CCATGGGnGT	360
	ATTACCATTA CTTCAACGTG GTnTCGGGTA GAAACTGGGT	400
25	(2) INFORMATION FOR SEQ ID NO: 3031:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,35 ,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:	
	nGCGTTTAAT CACATCTTTT TGATAATGTT CCCTTACCAT TTCTTCATGT GCATCTGCAT	60
	AGTCTTTTCC AAATGGCAAA CTAAACTGAT ATGCAACTTT TAAATAGGCA TCTATATGCG	120
40	ACTCGTCAAC GATGGCAATT TCAACGTCMA GTTACGCGGA CAAATTGGCA AGCGCATCAC	180
	TTTCTATGGC ATACAATTCC ATAATACCTA GTTCAAAATT CATATCTTTA AAACATAGCC	240
	ATCCAATGGA TTATCAAGTT GTTCATTTTC CGGGAAAACT NAAACGCATA AATGATTTGG	300
45	AACCTTGATT TGTATGTGA	319
	(2) INFORMATION FOR SEQ ID NO: 3032:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:	٠ ;
	AAGAAGTGGC AATTATGATT GATGCTCTAG CTGACAAAGG GAAAAAAGCA TTAGAAGCAT	.60
5	TATCTAAAAA GTCACAAGAA GAAATTGATC ATATTGTTCA TCAAATGAGC TTAGCAGCTG	120
	TTGATCAACA TATGGTGCTA GCAAAATTAG CACATGAAGA AACTGGAAGA GGTATATACG	180
10	AAGATAAAGC GATTAAAAAT TTATACGCTT CTGAATATAT ATGGAATTCA ATAAAAGACA	240
, io	ATAAGACAGT AGGGATTATT GGTGAAGATA AAGAAAAAGG ATTAACGTAT GTAGCGGAAC	300
	CAATTGGTGT TATTTGTGGT GTTACCGCCC AACCACCAAA TCCCTACGTC CGACCACCTA	360
15	TTTTTAAAGC CGATGGATTT GCCATTTAAG ACNGGGAATC	400
	(2) INFORMATION FOR SEQ ID NO: 3033:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 303 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
		١.
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:	
• • •	TAGCGGTAAT CGAAATTGGG GACTAAATTT CGCAAAAGCG GGTCGCACGA TATCAGAAGA	60
30	GTATAATGTC CCTTTATTAA TGAAGTTTGA GTTACATGGA AAAAACAAAG ACGTTATTGA	120
30	ATTTAAGAAC AAGGTGGGTA ATTTTAATGA AAACCATGGA AGAGAAAAAG TACAATCATA	180
	TTGAATTAAA TAATGAGGTC ACTAAACGAG AGAAGATGGA TTCTTTAGTT TAGAAAANGA	240
35	CCnGAGCTTT AGTAGCTTAT TTAGAGGAGT AAANGACAAA ACATCTTCTT CGACACTGAA	300
	TCG	303
	(2) INFORMATION FOR SEQ ID NO: 3034:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	en de la companya de La companya de la co	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:	
	CTnCGCTATT TTGTAGGACA TCTTCTAAAG TGCTAGGnGA AGAGATTATA GAATAGGCAC	60
50	TATCAATACC GAAATCGTAA ACATGTTGAT AATTTTCGCC TAGACTGCCA CAAATCGCGA	120
	TGACAGGAAT ATGATATTGT TTTGCAGCTA ACGCAACGCC TGACGGGTGT TTTACCAAAG	180

	TGATGAAAAT CTGTAATGTC AAAGACGGAC ATCAATGACT TTTGTTGAAA GTTGTCTCAC	300
	AAAACGNTAA TGAATGCTGC GGCCCATGAC CGGCCAGCTG	340
5	(2) INFORMATION FOR SEQ ID NO: 3035:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3035:	
	AAAGAACATG GTGTAGCAAT AGTCTCTGGA GGTGGAAGCG GACATGAACC TGCGCATGCC	60
	GGTTTTGTTG CAGAAGGTAT GCTAGATGCA GCGGTTTGTG GCGAGTATTT ACATCACCTA	120
20	CACCTGATAA AATATTAGAA GCTATTAAAG CAGTAGATAC TGGTGATGGT GTATTACTAG	180
	TTGTAAAAA CTATGCAGGT GACGTGATGA ATTTCGAAAT GGCACAAGAG CTTCCAGAAA	240
	TGGAAGGTAT AAATGTTCAA ACTGTTATTG TTCGTGnCGn CATTGCTGTG ACAAACGnGT	300
25	ACA	303
	(2) INFORMATION FOR SEQ ID NO: 3036:	• •
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.)
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:	
	GGGGAAAGTA AATTAACAGC TGTGTAGAAT AATTAAGGTT TTAATTTATA TAGAACAACT	60
40	TATTGTAAAC TTTTCATTTC TTAAAGTTTA CAATGGTGCT ATAATAATGG TCATGAAATA	120
	CGAAAGGAAG GAAAAAATGA ChACAAAACA GTTAGTATAT ACAGCTTTAA TGACAGCGAT	180
	TATCGCTAGT TTANGATTGG TACCGGTAAT TCCACTACCA TTGnCTTCAG TACCAATTGT	240
45	ACTICAAAAC AGIGGIATIT CITAGCAGGG GCGATTITAG GACGIAAATA IGGCACATIA	300
	AGTGTTATCG TCTTT	315
50	(2) INFORMATION FOR SEQ ID NO: 3037:	N.
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:	
5	GCACCAATTG ACGAAGGAAT ACCGAATCCC ATTGTTCCTA AACCACCGCT TGTAACCCAT	60
	TGTCCGTGAT TTTTAAATGG ATAAAATTGA GCTGCCCACA TTTGATGTTG TCCCACGTCT	120
	GTAGTAACAA TTGCTTCACC ATTTGTAATT TTGCCGATAT ATTCGATTGT TTGTTGTGGC	180
10	TTACAAAATA CTTGATCTTC TTCACCAAGT TTAAATGGGT GTTTCTGCTT ATTATTTTGA	240
	CAATGTTTAA CCCAGTCACT GTGTTCTATA GTCTCAACAT TTTTATCATT TAAACCnTCC	300
	AAAAAACCTT TACAnGCCnG CAAAAAAACC	330
15	(2) INFORMATION FOR SEQ ID NO: 3038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		٠.,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:	• •
25	GTGAGTCCAC ATAATAACTT TGACGTCCTG TTAATGTTCT AAAAGGTACT AGACGTTCTA	60
	TATTCGTTGT AAATGGTGAA TATCGTCGAC CTTGTTTATT TGAACCTGGG AATACTGCTG	120
30	TCGGTATTAC TTCTCGTGGT TGTGAAGTTA TATTTAAAAA CGAAATTTTC TCAGCAGCGC	180
	TGTCGCTAGA AATATCTTTT AACGGCATTC CAGTTTGTTC TTCGAGATCT TCATATGGAT	240
	TTTTGTGnAT AATTNACCAT TCGTAGCAGA TGGAAATACT TGAGTATNGG CATCAGCGAC	300
<i>35</i> ·	ATTGACGTGC TGTATCAATA CGTGGACGAT TCGC	334
	(2) INFORMATION FOR SEQ ID NO: 3039:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 101020011 211002	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:	_
	GGTCTGATCG TGGTGAATGA AAAAGGTTCT TCTCTGTAAT GAATTATCTC TTACCGATGC	60
50	AAGATATTAT GAGCATGCAT TGCTCAGCAA ACGTTGGTGA AAAAGGCGAT GTTGCATTAT	120
30	TCTTTGGTCT ATCTGGCACT GGTAAAACAA CCTTTATCGG CTGACCCACA CCGTAAACTA	180

	AND	300
	TATGGTGCAn TTTTAGAGAA CACTGTA	327
5	(2) INFORMATION FOR SEQ ID NO: 3040:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3040:	
	GTGATATTCA CGANCGTTAT TTTCAATATT TGATAAGTAG AAANTATGAC GATCTTCATG	60
	AACAGCATCT TGTTCTTCGT CAAATTCAAC GTCATCAAAA CGTTTGAAGA ATGTTTCATA	120
20	TGCATCAACA GATACTTCAG TACGGTTATT TAATAATGCT TTATGTGCAG CTTGGATCTA	180
	AATGATCTTT GTAGCCTTCA ACTHAATGTC GCACTATAAA ATTCACCAAC TGAACCTGAG	240
	CCATAACTGA ATAAACCGAT TGTTTCCACC AGCTTGTGAA TCTCGATTTT CAAGTGAATG	300
25	ATATT	305
30	(2) INFORMATION FOR SEQ ID NO: 3041: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:	٠
	GTTGTGTACC TTAAATGATC AACCGATGCA TAAGAAGAAA GTGAGACGTC ATCAAATTGG	60
40	TGCTGTATTT CAAGATTATA CGTCATCATT ACATCCATTT CAGACTGTTA GAGAAATCTT	120
40	ATTTGAAGTG ATGTGTCAAT GTGATGGACA ACCTAAAGAA GTTATGGGAA GTCCAAGCAA	180
	TTACATTGTT GGAAGAAGTC GGTCTATCTA AGGCATACAT GGATAAATAT CCTAATATGT	240
45	TATCAGGTGG AGAGGCGCAA CGTGnTGCAT nTGCGCGTGC AATATGTATT GAACCCnGAA	300
•	ATATATTTG TTTGGAT	317
	(2) INFORMATION FOR SEQ ID NO: 3042:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 351 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:	
5	AATCTTCGAA AAATAATGCA ATGCAGATTC CGAAAAAAAC AATATGATAG AAACACCTCA	60
	ATTAAATACA ACGGCTAATG ATACATCTGA TATTAGTGCA AACACAAACA GTGCGAATGT	120
~	AGATAGCACA_ACAAAACCAA_TGTCTACACA_AACGAGCAAT_ACCACTACAA_CAGAGCCAGC	180
10	TTCAACAAAT GAAACACCTC AACCGACGGC NATTAAAAAT CAAGCAACTG CTGCAAAAAT	240
1	GCAAGTTCAA ACTGTTCCTC AAGAAGCNAT TCTCAAGTAG GTTATTAAAA CACGGATGGT	300
. 0	GCTAATAGCT THGCAACAAC GTGGGCTTTA AAATTCTCCA ACTTTAGTTT T	351
15	(2) INFORMATION FOR SEQ ID NO: 3043:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* §.
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:	•
25	ACGNCCTTAC TGGNTACTTG GTTGATAAGT GTTAATCCAA ATGACGTCCT GCTACGTACA	60
	GCTTTACGAA TATTTAATGC ACGTGTGATA TTTTGAGAAA ATACACCGCC TGGCTAAACC	120
30	ATACTCAGAA TCATTAGCTA TATCAATTGC TTCTTGATCG TCCTTCACTT TAATCACTGT	180
	TAACACTGGT CCAAATATTT CTTCTTGTGC TAATTTGTGA TGATTGTCTG GCACnCAATT	240
	AATGTCGGCT CAAAGAAGAA CCCTTTATCT AATCCATTTT CAGTTAAGCG ATGACCGCCT	300
35	GCTAAAATTT GTGCATCCG	319
	(2) INFORMATION FOR SEQ ID NO: 3044:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		1
45 -	(xi) SEQUENCE DESCRIPTION: SEQ ID_NO: 3.044:	
	GTCATATAAT CTAACATTTG TGTTATCTGT TAATTAACTG GnTTTTACCT TAATTTGTTA	60
50	CATTGRITCTG TATTAAATCT TTTTGTAACC ATTGGTTACT TTTTCAGGTG GAATTTCAAC	120
30	ACCCATGTCA CCACGTGnCA ACCATTAAAC CATCAGACAC TTCAAGAATT TCCGCAATAT	180

	MATTERCON ATTICIAMA CATCACTAGG TACGACGTAC GAMACTIGCT GCANTGAGGT	300
	CAACATTTC TTTAATACCG AAACGGATAT CTTCAGCATC TT	342
5	(2) INFORMATION FOR SEQ ID NO: 3045:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• 90
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:	
15	TAATATCATG TTGTGCTTTT AGTGCTTCGG CAATTTGTTT TGTACTTACT GACCCAAACA	60
	ATTTACCACC TTCACCAGTT TTTGCTGATA CTTCAACTTC AATGTTTGAT AACGTTTCTT	120
20	TTAATGCTTT ACATCTTCAA TITCTTGTTG GCGTTCTTGT TTTGCACGTT TITTCTGTAA	180
	CTCTAATTGT TTAAGGTTAC CTGGTGTTGC TTCTACAGCA TAATTCTTTT TCAATAAGAA	240
-	GTTATTTGGC ATAACCTACT GGTACTTCTT TAACTTCACC TTTTTTACCT TTACCTTTAC	300
25	CTTTAACAnC TGTGTAAAAA TTACTTTCAT GCAGnTCACT CCTACTTAAA TGTTCCGTAA	360
	TGCCTGTTGT AATGTGCCAA CGCCnCTCGA CGTGACACCT	4 0.0
30	(2) INFORMATION FOR SEQ ID NO: 3046:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:	
40	AATCACTGTT TCATTACTTG TTCCAAATCT GDATTCAAAC TATTGTTCAA AGATTCTAAT	60
	TCCGCTTTAT TTTTATCTTT AATCGCTTTT GTCATCGCAG CATCTTTAGn CATCGACTTn	120
45	CTGTTGCAAT AGTTTAATTT TAGAACCCGC ATCTTTACTA GCCAATTTCT CTTCATAAGC	180
	AATTAATGAC TTCGTTAATT GCGAAAGTGT ATCTTTTTGA TTATCATTCG CTTTTGCATC	240
•	TTCAAGCTTT CTCACATCTG CATTTGACAG CATTACTTGC ACTATTATCT TCAAGCGATA	300
50	ATTTCT	306
	(2) INFORMATION FOR SEQ ID NO: 3047:	
55	(i) SEQUÊNCE CHARACTERISTICS: (A) LENGTH: 306 base pairs	•

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:	
	ATGGATCATA TTAGCACGTA AAAGAAAATT CTGTTCATTA TGAAGAAGTG CCAGAnGTTG	60
	AATTTAAACG CACATATGTA TGTGAAGATA TGTCTAAATG TATTTGTTTA TACAACGCAC	120
10	CTGATGAAGA AGCGGTANTC GCGCGCGCAA AGCAGTTGAT ACACCGATTG ATGGCATCGA	180
· •	AAAACTTTAA TAAGACAACA AGTTGATGAG ATATATGTAT ATAGGTTTGG CATGGATTTC	240
15	GATTGCANTT ATTAGAATAG CTCAATGCTA TAAATGTAAG TAGTTGATAT TGAGGAACTA	300
	ATGAAC	306
	(2) INFORMATION FOR SEQ ID NO: 3048:	
20	(1) SEQUENCE CHARACTERISTICS:	. 0
	(A) LENGTH: 287 base pairs (B) TYPE: nucleic acid	
٠.	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	and the state of t	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:	
30	GACAGGCTAC GAGATATTTT AAACAAATTT ACATCAAATC CAGTATTAGG TGTTATTGCA	60
	GGTATCGTTG TAACTATTTT AATACAAAGT AGTTCAGGTA CGACATTATC ACAATCGGAC	120
	TGGTAACNCT GGATTTATGA CATTGAAACA AGCCATTGGA GTGATAATGG GTGCTAATAT	180
35	CGGAACANCG GTAACTGCAT TTATTATCGG TATAGATTTA GGCGAATATG CAATGCCAAT	240
	TTTAGCATTA GGTGCATTCT TGAATCTTTT TCTTTAAACG CTCTAAA	287
	(2) INFORMATION FOR SEQ ID NO: 3049:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs	
·	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:	. 0
50	CATATAAATA GCGnTACATC GCGCCATTCT TGATCTGNAC ATATCTTTCT TAGGTCCAAC	60
	CGTGAATGAT TACGTCCATG ATAACGTACA AACGCAATTT CATTTGTGAT TCGATTGACT	120
	AAAGGTACAC TGCCATCTTT CACTTGTGGT TCATCAACTA CTGCATGAAT GATTTGATGT	180

	AATTCTACAC ACATTGGAAA GCTTGTAATG CTGTCTTACA TACAAATATA TTGATATTTG	300
	TGCATGCAGT CAACCAGGCG GAAATGACCA TACCATGCTA ATTTTCTGGT ANGAAGGCCT	360
5	ACATATCTAA A	371
	(2) INFORMATION FOR SEQ ID NO: 3050:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:	:
	CGCCAAATAA AGATAATACA CGTATTGGTG AAGATATAAC TGTAACTGCA CATATCTTAA	60
20	TTGATGGCGA AACAACGCCG ATTACGAAAA CAGCAACATA TAAAGTAGTA AGAACTGTAC	120
	CGAAACATGT CTTTGAAACA GCCAGAGGTG TTTTATACCC AGGTGTTTCA GATATGTATG	180
	ATGCGAAACA NTATGTTAGG CCAGTAAATA ATTCTTGTCG ACANATGCGC AACATTGAAT	240
25	TTCCAATTTG TTGGAnCATA TGGGCTAACA AGGTGTTTAG GCATATCTAC TCGTCTTATT	300
	GGGTGCATAT GTAATGGCAA GCA	323
30	(2) INFORMATION FOR SEQ ID NO: 3051:	**
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051:	
40	CCGnACCAAT CGGTTTACAG TTCATTGGTA AACCATTCGC ATGAAAAAC GTTATATCGT	60
	GTCGCTTATC AATATGAAAC ACAATACAAT TTACATGACG TTTATGAAAA ATTATAAGGA	120
	GTGGAAATCA TGCATTTTGA AACAGTTATA GACTTGnGTT CACGTAGAGT TAAAAACGGA	180
45	CTCAAAAATG TTTCTCCATC ACCAGCGCAT TTnGAGCAGA ACCTAACTCA AATACGAATG	240
	GTATCGCTTA GCATATCCAG TGCTTACCAG TTGTTAATAA GCGTGCGTAG ACGGGCATGC	300
50	GTGCTGCAAT GCCTAAATAG GAACG	325
50	(2) INFORMATION FOR SEQ ID NO: 3052:	
·	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

. 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:			
	CTTTTAATCG CTTGAAAACT ATAGGTAAGA CAATACAAGT AGCTA	ACAAAG	CCATATATTA	60
10	CTGTTAATTG ACCTATGAAA AAATATCCGC TAACGGGTGC CGTC	ATCCT	GCGATAGCAA	120
	TACCAATAAA AAGTACAGTC CACGAAGGAT AAACATTTTC AAGTG	AAAAA	TCTTTTAAAT	180
	ATTTTATTGA AAAAATAATC ATATGCGTCA TAATTCCCAC AAGGC	AAATA	ATCCAAATAG	240
15	GCGTATTAAG CTATTGTAAA GTTTGTTACT AAAAAATGTT TTAAA	TAGTG	TnCTAAAAAG	300
	CCGGCATGAA AATGTGTGAC CTGATGAACT GAGGCTGTTA TTGTC	TTCAC	TTAAAATT	360
	TGTCTAGTCT AAAGGTGATC CAATCAGAAG CAAGTCCGCA	• :	1.	400
20	(2) INFORMATION FOR SEQ ID NO: 3053:			-
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs	·		
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		* .	
25	(D) TOPOLOGY: linear	*		
	* * *	* •	* .	*
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053:			. • •
	AATGAGATGC GAAGGATGAT CAGAGAAAAA GTCTCTCAAT CAGGT	GTGAA	AGTCAGATGG	60
•	TTATCACAAC TTTGGCGTAC GTTTTCGATA TAATGCACTA GGTGA	TTTAA	ATACGAGCAA	120
35	TATTGTTTCT TCAAAAGAAA GTTTCGGTAT TACTGAAGTG TGAAA	TCTGT	CTCTATGCAT	180
	GCCGGATCGA CATTAGCATT ACTAATCCAG AGAAAGCAAA AGGTA	TTGTG	TATACACCAG	240
	AACATTGCCA GCGAAAAGTA AATGGTCACA GCTGTAGAnC AAGGT	ATTTA	TAATGGGGGC	300
40	GGTAAAGCAG AAGGCCCCTA TGTAGCATTT CNTAAAGNTG GGAAA	AGGTA	AAGCAGCATT	360
	ATCGGTG		*	367
45	(2) INFORMATION FOR SEQ ID NO: 3054:		•	7
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs			
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double			
50	(D) TOPOLOGY: linear			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:			

	THATTTATCT HAGCTCATGA CATGATGGCT GTTCACATTG CAAGGCGTTG ATGATHAAAT	120
	AAGGAAAGGC ATTAGGAAAA AGCCACAGGG AAAACATTTC AGCAGCAGGT TCTTGGAATC	180
5	ATATATTCAA GTTCAACAAG CGAATGCTGT TAAATTGCCC TTTGGATGAC AATCAATTCG	240
	ATATCGTTTT AAATGAAGCA ATGTTAACAA TGTTACCCAT CGCCATAAAG GAAAAAGCAT	300
	TACGCGAGTA CTACCGAGTC TAAAGCCTGG GGGTATCTGT TAACACATGA TATTGTCATC	360
10	GTTAATGAAT CACATGCCAC AC	382
	(2) INFORMATION FOR SEQ ID NO: 3055:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:	
	CTTAÄGATTA GGTGTGCTTA ATTAGTACTG GCTGGGAACG ÁTAAAGGCAT ATTGCAAAAA	60
25	ATAGAACATC CATATCCATT AAATGTATTT ACGCTAAATA TTGnCGACTT ATATTTTTAG	120
	ACATAGAGAA GAGACAAGAC AATTTTTAAC GATGCAACGA CAGTTAGGCT GAGGCAGTTA	180
30	AAACAAATAT TTGATACACA TGTTGnCAGA TAAAAGTCAG TGTTCCCATC AAATGCnAAT	240
50	TTTGTACTAC TAAAAGCTCA GCAGCGCAAC AATTAGGACA ATACGTATAT GAACAAGGGA	300
	TTTAAACCTC GCTTTT	316
35	(2). INFORMATION FOR SEQ ID NO: 3056:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	p.
10	(D) TOPOLOGY: linear	
re .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:	
15	GTTCACCATC CGTTTATTTC AATGAAAAAA TCGACAAAAA TGGTCGTGAA AACTATGATG	60
	CAACAATTAT TCCAAACCGT GGTGCATGGT TAGAATATGA AACAGATGCT AAAGATGTTG	120
50	TATACGTACG TATTGATAGA ACACGTAAAC TACCATTAAC AGTATTGTTA CGTGCATTAG	180
	GGTTCTCAAG CGACCAAGAA ATTGTTGACC TTTAAGTGAC AATGAATATT ACGTATACTT	240
	AGAGAAAGAC nGCACTGAAA ACACTGACCA GCGTATTAGA ATCATGACGT TACGTCCAGT	300

	CTTAGCAGCG TGGGnCGTAT	380
	(2) INFORMATION FOR SEQ ID NO: 3057:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs	`.
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:	
15	TATGTGATGG ACTTAAAAAA ACGAACTCAA TTAATACAAT GGGCTCAAGA AAAAGAAGAA	60
	CGATTTATTA TAGAAGATGA TTATGATTCC GAGTTTAGAT ATTTCGGCAA ACCCATTCCA	120
	GCAATTCAAG GTCTATATTC AAGAGGAGAA AAAGTGATTT ATATCAGTAC ATTTTGCAAA	180
20	GTCTATTTT CCTAGCTGTT CGAGTTGGCA TATATGGTGT TACCCTATTC TATATGGAA	240
	AAAATATCAT TTCTnCAAAA TCCACCATTG GAAGGGCAAC ACTGGTAACC TGTTTCATAT	300
	GGCAAAACCT TATTGGCAAC GTTTnAT	327
25	(2) INFORMATION FOR SEQ ID NO: 3058:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:	
	CGAAAAAGGA GAATGAAACA TGAGGTAATA CAACATTACA TGCAACAACA ATTTATGCGT	60
	GTAAGACATA ATGGAAAGCA GCTATGGCTG GAGATGGGCA AGTAACGCTT GGTTCAACAA	120
40	GTCATCATGA AACAAACGGC AAGAAAAGTG CGACGTTTAT ATGAAGTAAA TGTTAGCTGG	180
	TTTCGCAGTA TGTAGCAGAT GCGTTTACTT ATTTGAAAAA TTCGAAACAA NATTACAACA	240
So	GTTTAGTGGT AACTTAGAAA GAGCnGCTGT TGAATTGGCA CAAG	284
45	(2) INFORMATION FOR SEQ ID NO: 3059:	
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 302 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	*	

	AAAGAAGCGG ATGAAGAGCT TTGCATTGAG CTCGACCCAG GTATGGCTTT TGGAACAGGT	60
	GATCATCCGA CTACAAGTAT GTGTTTGAAG GCAATAGAAA CATATGTATT GCCACAGCAT	120
5	TCAGTAATTG ATGTTGGTAC TGGCTCAGGT ATATTAAGTA TTGCAAGTCA TCTAATCGGT	180
	GTAAAACGTA TTAAAGCGTT GGATATTGAT GNAATGGCAG TGAGTGTAGC TAGAAGANAA	240
	CITCAGAAGA NATCATTGTG AACGTTGAAT TGGAAGCTGT TCCAGGTTAA CATATTGGAA	300
10	AG	302
	(2) INFORMATION FOR SEQ ID NO: 3060:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:	
	TTTTTAAnGA CACATTGNGC TGTGTTTAAT GCATGAAAGG AACCACTGAC ATGCATNAAA	60
5	TCTTTGAATG GTTCTTTATC AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA	120
	TATAATTCAA AAAGGGTCGA GGATATGAAA TCACATCTTC GACCCTTTAT TTACTATTTT	180
_	AATTCAGCCA CACGCAAACG GTTATTTGCT CTCTCTAAAG CTCTTTCGGC TCTATGGAAT	240
0	ATCAGTATTG TCGTCAATCA TTTTCCAAGT GAGACTCTGC TCTTGCTTTG GCTAATTTAG	300
	CTCTTTCAAC ATCAATTTCT CTTGCAGTTC	330
5	(2) INFORMATION FOR SEQ ID NO: 3061:	
	्र(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	•
o	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:	
5	CGATCAATCA ATATAATTCA CGGCGCAAAA CGTTTATTTA GCATGTTCTT GCAGACTCTG	60
	AAACTGGCAT TAAACCTTCC ATTAAGATTT TTACCATTCT AGGCATTAAT ACCATTACTG	120
n	CAGCCATTGA CATTCCTAAA TTAATGATGT CTCCAGGTTT GTAACCTGCT AACACACCAA	180
0	TACCTAAMCC TAAAATTAAG CCGACAAATA TAGACTCTCC AAATGCGCCA AAACGTTTTT	240
	GAATTGHTTC AGGATCAGCA TCTAACTHAT TCAGACCGGG TACTTTTTGT AACAATTTAA	300

(2) INFORMATION FOR SEQ ID NO: 3062:

. 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:	
	TATAAAATCA ATGATTTTAA CAAATAAAAA CGTACCGCAA ATACTGCAAA TAACAGCAAA	60
	TACTAGTTTT AATAAAATAT GACCGGTTGG AAAGAACAAT AAAGCAATTA AAATACCTAG	120
15	TTTAGCCCAT TCCATCGTTC CAGCTGTAGT CGGACTAACA AACTTATTTT GCATCATTTG	180
	TTGGCATTAT CAAGCCTGCT GAAAGCCAAC GAACTTCCAG CAATTAAAAT ACTCATCGTC	240
20	CTTGGTATTC GGGCTTGGAG AATAAAATGA TTCCGCTGGT GACTCAGTTG AAATGTAGTG	300
	AAATCTTTGA ATTGGATAGT TnCACTGCAC ACCTGATGGn AnCAACGGAA	350
	(2) INFORMATION FOR SEQ ID NO: 3063:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:	
35	TTAGTGATTT TAACGTGTAT CGGTAATTTT AAATAAATGT TTAATGCTTT TGAAAATACA	60
	GTTCTAACCG AAGACGTCGG GTACACTGAA TCACCGGAAA CGCCAAGGTC TTTTATTAAA	120
	CCTTGTTCAC TATATTGCAT ATACTGTGGA TGCTGTCGCA ACACATTGAT TTGATAAGGA	180
40	TGTGTTGGTA ATAAAATAAA ATCTTTGGGT ATCTCTGATA TATCTATGTC TGCTAATTGG	240
	ATACHACACT TTCTCAACCT GGATCCTTCC TTTTACCTHC CACCATAGCC GCGTGGANCA	300
	GGAAACCATC CTGGGATGCA CCAGCCAAAA TAAATGCCAA TT	342
45	(2) INFORMATION FOR SEQ ID NO: 3064:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GTCCAGCTCC AGAACCAAAC TTAACAGTAT TATGGTCAGT ACGTTTACCT GACAACTTCA	60
	AAACATACTG TGCAAAAATG AGTATTAAAA CAAGTTCTAT CCAATATGAA AATGATGACA	120
5	TTATGCGTGA AAGCTATGGC GATGACTATG GTATCGCnTG TTGTGTATCA GCGATGACAA	180
	TTGGTAAACA AATGCAATTC TTCGGTGCAC GTGCGAACTT AGCNAAAACC TTACTTTACG	240
10	CTATCCATGG TGGTAAGATT GAAAATCTGG TGCACAAGTG GGCCCAACCT CCGAGGGATT	300
	nACCAGCGGA GTAATT	316
	(2) INFORMATION FOR SEQ ID NO: 3065:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
20		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:	
	TGATTGCGTG GATCAGCAAC TTCAAAGATT AACAAATAAT ATTACTTGGG CAGATAACCG	60
25	CGCTGCAAAA TATGCAACAG TAATAAATGA AGTGCATGAT GGGCAATGCG ATTTACCAGC	120
	GNACAAGCAC ANCGGTTTCA TCCTATGTCG CCATTAGCGA AGATTTTTGG ATGAAACATG	180
	ATGGCCAGAT GTATTTCCAC GTACTGCTAA GTTTGCAGAT ATTAAAACAT ACATTTCTAT	240
30	CATTATTGAT ACATATATCA TTGATTATTC CATGGCTTCC GCnACAGGGA TGTTAATTAG	300
	AACATAGATT GGAGTGAGGC AT	322
	(2) INFORMATION FOR SEQ ID NO: 3066:	;
35	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:	
45	TATAAAGAAT CCTGCCTTAC CTAAGAACAC TTGTCTTGTC	60
	CTTATGTTTA TTATCAACCG TTAATAAACT TACCATCAAG AGTGCACCTA CCCATACTGA	120
	CAGTGCAGTA TAGAATGGTG TCATACCTGA ACCATAATCC TTAACTGGGA AAACATCAAC	180
50	AGTCTTCTTA TTAATAGATT GCAATAATAC CCGCTGCTTT TTCAAATCAT TCTAnTGGTC	240
	CARRAL MERCE COA COCALECA MOREGRADA A MORE	200

		373
	(2) INFORMATION FOR SEQ ID NO: 3067:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
*		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:	
15	TTCAGAGTTC GGAACATAAG GCGCTACAAT GTTGTGTTGC CAGTAGTTGA CTGAATATGC	60
	GTTTGTAACA AGCTTTTTTC GATTCTAGTC AACAGTAATT AAATTTATGA TATGGGCAAT	120
	ACTTTGTAAT ACTAATATTA AATGGCGACT TTATTTCACT ATGTTATAAG AGTGCCATTT	180
20	GTTGATAAAG GNATACTAAA GGGTATCGTT TGGAATTTTA GTAACTAGAT ATGTTCGGGT	240
•	ATAGACCGNA TTGTGGATAC GTAAATTTAA TGCNATGAAT TTTAAAATGA AAACATGACA	300
25	TTAAATGAAT C	311
25	(2) INFORMATION FOR SEQ ID NO: 3068:	
<i>30</i> ;	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
7		
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3068:	
	TATGATTATC TAGTAAGTAA ATTGCTGACG CGCCGAATAC CGCAAAGAAT ATAAAGCAAA	60
	CTAACGCCGG GACAAAAAGT ACACCTAGGA ATAAATTCTT TAATCGTACG TCCTTTTGAC	120
40	ACACGTGCAA TAANATACCT ACAAATGGGT GCCCAGGNTA TCCACCATGG CCCAGTAAAA	180
	GATTGTCCAA TTTTGTAACC ATTGGGAATT TTTGACCACC TGTCGGAATG CGTAAACTCA	240
45	TACTTAAAGA AATTTGCATT ATAATTACCT AGACC	275
	(2) INFORMATION FOR SEQ ID NO: 3069:	e · · ·-
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAATGGGTTC TGTGACATTA ACGTCTACAA AAGATGGTTC AGAAGAAACA CACGAGGCTG	60
	ATGGTGTATT CATCTATATT GGTATGAAAC CATTAACAGC GCCATTTAAA GACTTAGGTA	120
5	TTACAAATGA TGTTGGTTAT ATTGTAACAA AAGATGATAT GACAACATCA GTACCAGGTA	180
	TTTTTGCAGC AGGAGATGTT CGCGACAAAG GTTTACGCCA AATTGTCACT GCTACTGGCG	240
	ATGGTAGTAT TGCAGCnCAA GTGCAGGGAA TATATTGACA TTAACGATCA GCCTAAnTCC	300
10	GAGCNGATTA GATGTGAGCG G	321
	(2) INFORMATION FOR SEQ ID NO: 3070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:	
	GTTTGACCTG CATATTTGAC AGTCATAACC TTTGTATCAC CATTATATTA ATATCAAAAT	60
25	CTTGGAACGT GTTATTTGAG nTGACATTTA ACTTCGCAGC ATTATCAGCT GTTGAACTTG	120
	ATGTATACGT TGCGCAACCC ATAACTATCT GTGTTACAAT GCACCAAACG CACCTCCACC	180
30	AGCTACATTA GATGGGCAGC TTCGCCTTGC AGCTGATTGG TTTAGATGAT TGTGATACGA	240
	TCCAATTTGA AGCCAAATmG TACTTAAGCA CAATCCTACT GCGGACCGTT TAACCCTGTT	300
	TCACCTATAC ACTGNTGAAA GGCAAACCGT ACCACTCACC ATTTCCATGC CTTCCATATT	360
35	TGGTTACCAA ATTTACTTTT CCCnGAAAAA TGAAACTCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3071:	· 'ju'
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		ė
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:	
	TGGCCATTTG TCATTGCATT TTTACCGTGG GTGTTGATTA TTATTCCTTA CTTACTATTT	60
50	AAATCGGATA CACTAAATAT TATTCATACG GGTGATAATA TTGCACGAGG TCTAGGTGTA	120
	AGGTTAANCA GAGAACGTTT AATATTATTC TTTATCGCAG TGATGTTATC ATCTGCTGCT	180
	GTAGCATAGC AGGTTCAATT TCGTTTATCG GATTAATGGG TCCGCATATT GCCAnACGTA	240

FP 0.786 519 A2

(2) INFORMATION FOR SEQ ID NO: 3072:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:	
	GACTCCCTGC AGGTCGACGT CTAGAGGATC CCCCCACAGC AATTCACTTA TACATGTAAC	60
15	AGTGTGAAAT AATAACGTCA CAACGGCATA ATACACATTG CAACGTCCCA ACAACATATC	120
	ATAGAATCGT AACGGCATGA CATCAACACC AAACCTGGGC TATAACACCA TAACAGCGCA	180
	ACGCCACATC ATAGGCACTA CATCAAGTCG CATCGTAGCA CCAGCACATC AAAGTAACAT	240
20	GGGCATCAAC ATCAAACCGG TCTATAACAC CATAACACCG GCAATGCCAC ATTCATAGGC	300
	ACTACATCAA GTCGGCATC	319
	(2) INFORMATION FOR SEQ ID NO: 3073:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) Toroboot. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:	
<i>35</i>	ATATACGCTT ATCAGCTGGA GCTCAATAGA TGGAGGATGA TTATGGGGCT ACCGGTTCTG	- 60
	TCTATAGCAC TGGTCTATCA GCTATGTGGA TTACAATCGG TTTAACATTA GGTGCTTATA	120
	TAAATTACTT TGTTGTTGCT CCTAGACTTC GTGTTTATAC CGAATTAGCT GGAGATGCAA	180
40	TTACATTACC AGATTTCTTT AAAAATCGTT TAAACGATAA AAATAATGTG TTAAAGATTA	240
	TTTCTGGATT GATTATCGTA GTATTCTTTA CATTATATAC nn	282
	(2) INFORMATION FOR SEQ ID NO: 3074:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3074:

	AATCGAnaaa TCATGGATGT ACTTGAATCA AATGCAAACA GCGAAGTGTn TTGAATTGCA	120
	TGGTAGCGTT ATAGACGAGC CAGTAGAAAT TCAATCAATT AAAGTATATG TTCCTAACGA	180
5	TGATGAAGGT CGTACGACAA CTGTAATTGG TAATGCTTTC CCTGACTCAG AAGTTAAATG	240
	CATTACACCA GCAGATATCA TKGCTTCAAT GAGTTACTTC TTTAACTTAT TAAGCGGLAT	300
	TGGGLATACA GATGATATTG GACCATTAGG TAACCGTCGT TTACGTTCTG LAGGKGGAAT	360
10	TACTACMAAA CCAATTCCGT ATCGGTTTAT CCAAGA	396
	(2) INFORMATION FOR SEQ ID NO: 3075:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:	
•	ACCTACATTT GCAGTTGTCG GTGTATAACC GGCTGGTGTT GAAAACTCTA CACTATAAGT	60
?5	TCCATTGCTT AAACCAGTGA ACTGATATTT ACCATTTTCA TCTGTTGTCG TACGATCTAA	120
	TTCTTTACCG TTACTATCTT TAAGAATGAC ATAAACACCT TTAATCCCTT TTTCATTGGC	180
30	ATCTTGTTTA CCATCTTTAT TTGTATCTCC CATACATAGT CACCTAGATT ATATTCTTT	240
	GGGCGCCATA GCAGTTGATG AGCATTCACA TTGAAAAACT ATTGACCACT ATATTAGTTT	300
	GCAGTGCTAA GNATAACATT TCCATACGTG ACATACTGAT AGACTGTGAG TGATGTATGC	360
35	GCTGnTGCTC ATAACG	376
•	(2) INFORMATION FOR SEQ ID NO: 3076:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:	,
	TTACATCACC AATTAGACGT TATCCTGATT TAACAGTTCA TCGTTTAATC CGTAAGTATT	60
	TAATTGAGAA ATCAATGGAT AACAAAGAAG TGAAGCGTTG GGAAGACAAA TTGCCTGAGT	120
	TAGCTGAACA TACTTCTAAA CGTGAACGTC GTGCTATTGA GGCAGAACGT GATACTGATG	180
	AATTGAAAAA AGCAGAATAT ATGATTCAAC ATATTGGTGA TGAATTTGAA GGTAATGTCA	240

	AAngCngnga Tatacgtttg Aggcgcaatg C	331
	(2) INFORMATION FOR SEQ ID NO: 3077:	•
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
r -114	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:	
15	AATCATATGC ATCGATTTCC AGCAACAGCA ACCATTCATC CTATGTCCCA TTAGCAAATT	60
	TTTTGGATGA AACATGAATG GCAAGATGTA TTTCAACGTA CTGCTAATTT GCAGATATTA	120
	AAACATACHT TTCTATCATT ATTGATACAT ATATCATGAT TATTCATGGC TTCCGCAACA	180
20	GGATGTTTAT TTAGAAACAT TAGATTGGGA TGTTGAGGCA TAGAACTGCT GGGTATTTCC	240
	AAGGAAATGT TGCCGGAATT ATTCCAACAA CTATTGATGT AAGTATGAAA GAACGTATGC	300
	AACATAATGG GCTAATAAAG TACACCGTnT GTTAATGGTG CNATG	345
25	(2) INFORMATION FOR SEQ ID NO: 3078:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
*		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:	٠
	GATTATCAAG CGATTGATCA AGTATCATCA TTGTTGAAAG AAAAATATGG CATTGCACAT	60
	TCAACGTTGC AAATTGAAAA CTTGCAATTG AATCCATTAG ATGAGCCATA CTTCGACAAA	120
40 .	TTAACATAAA TAAAACATTG TAGCGCCTAA AACATTAATC TATGTCATAG GCGCACGTTT	180
	CGTTTTATAC TTATGTTGCA TCATTTAAAT GATTTTCGTC AATTTCTTTG ATGCTATCTA	240
45	CATCTAACAC GAGGTTAACT TGCGTTGATT TTGATAAGT GATCATAGCT TTTAGTACTT	300
·*	GAGGATTTT ATTGTTGCTG TTACGAATGT GGTCATGTTT AATGCGGGAC AGTAATTTAA	360
	GTTGTTTTT TACAATTGAG AGTGTGATAT TTCGATTCGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3079:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 319 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
99		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:	•
5	AAACGTTTAA TATACACTTT TACACGTCGC CTTCATTGAA GCGAATTGCC ATAACCTTCA	60
	CATTATATAT AGTTCTTTCC ATATAAATGT CCAAATTTTT AGAACAACGC AATATATAAC	120
	CATCCACCTA ACTTATCAAA AATTTAAGTG GATGGTTTTT CATTTTCATT TATATTTATA	180
10	TTAGTGTTAA TCCAATCATA GATTTATCTA TATGCACTGC TCTATACATT TCCTCATTTA	240
	ATTTGCYTTA CTTTCATTTA TATCATTATC AGAACACTTG GCGTGTCATC GNTATTATTT	300
	CGCATCTTTG ANACGTTTA	319
15	(2) INFORMATION FOR SEQ ID NO: 3080:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:	٠
	TCAAATGCAT CTAGGnCACA TTATTCTATT TGGGCATTCT TAGTGCTGTT CTTATTTGCG	60
	GCTTTAACGT CATCTATTTC TTTATTAGAA TTAAATGTTT CTAACTTCAC GAAGAATGAC	120
30	AATACAAAAC GTAAAAAAGT CGCAGTGATC GGTAGTATTT TAGTATTTAT CATTAGTATT	180
	CCAGCAACCT TATCHTTTGG TATCCTAAAA GATGTAAGAT CGGTGCGGGA ACGATTTTTG	240
<i>35</i> .	ATAATAAGGA TTCCACCGTT CGAATGTAAT GAAGCCATAA GCGGG	285
	(2) INFORMATION FOR SEQ ID NO: 3081:	ı*
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:	•
	ATCATAGCGT TTCTCCTAAA AATTACGATT AATCAAAGTA TGCCATTATT TAACTTTAGT	60
50	TTCTTCAGAA TTATTTGCCC CATTATCATG TTTTTCTTCT TTATTAACAG CATTTTTATC	120
50	ATTTTTAACA AGATACAATT TACCAATTAA TGGGCGGTGT GCGTGCTGGT ATGGGTTATA	180
	CTGGTTCACA CGATTTAAGA GAATTACGCG AAGAAGCACA ATTTACACGT ATGGGTCCTG	240

المستحولين الأست. الحديد المستحد المستحد

CATTCTAATT AAGATAAAGG AGAACGACAA ATATGGGAAA TGGCAAAGGA CCAAGAGTTA

	ATCCTTGTCT TAGGACTTTG GTAGGCCATT ACACCCATTA	400
5 , .	(2) INFORMATION FOR SEQ ID NO: 3082:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	. V
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:	*
	TGAATTTGCT CCAAATAAAA ATACAATTGC CATTAAAATC ACCAGATATT ACAAGTGGCA	60
. •	ACATGTTAGA AACACCGTTC ATTAAGTGTT TATAGAATGC TTTACCTGGG CTTATTTCTT	120
20	GACTGTCATT TGAGTTACCT GGCAACAAAA GGTTTACGAC TTGTATCTAA TGAATACCAT	180
	CTGCTACTGG TnCTTCTACG ACATTTTTAC CATCGANGCG GTCCGTCTCA ACATGTACAT	240
	CAGCAGCA	248
25	(2) INFORMATION FOR SEQ ID NO: 3083:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	·*
30		.
30	(C) STRANDEDNESS: double	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	60
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:	60 120
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA	120
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT	120 180
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTARAGGT TTARATCARA RATGGCTAGG TATCGTATTT GCGATTTTAR TTACARTTAC ATTTGCATTT GTATTTARCA CAGTGCARTC TRATACRATT GCGGAGTCGT TARATACGCA ATATARTATT AGTCCAGTAR TCACAGGTAT TATTTTAGCA ATCGTARCAG CTATTATTAT ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAR TGTACCGATA TGGCTATCAT	120 180 240
35 40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCCNA TGATAGGACG	120 180 240 300
35 40 45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCCNA TGATAGGACG ATATAAAAGG CATTGGNACG ACAAGNACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC	120 180 240 300 360
35 40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083: TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCCNA TGATAGGACG ATATAAAAGG CATTGGNACG ACAAGNACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC GGGGTATC	120 180 240 300 360

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:	
5	TTGGACTTTA TAAAGTTACT AAGTTGTAGA TTATCCTGGT AAAGAAGATA TTGCGGTTGT	60
	ACAAGTTGAA GAAAAATCAA CACAACCAAA AGGTAGAAAA TTCAAAGATT TCACTAGTAA	120
	ATTTAATATA GCATCAGAAG CTAAAGAAAA TGAACCTATA TCAGTCATTG GTTATCCAAA	180
10	TCCTAATGGA ATAACTACAA ATGTATGAAT CAACTGGTAA AGTATTATCA GTGAATGGGA	240
	TATAGTGNAT CGGATN	256
	(2) INFORMATION FOR SEQ ID NO: 3085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:	
25	ATATGCATAT GCTTCTTTAG GTGAACGAAT ATCTGGTTCA GATACGATTT CAATTAGCGG	60
	TGTACCTTGA CGGTTCAAGT CAACTAATGA ATACTCCACC TTTATGTGTT GACTTACCAG	120
	CATCTTCTTC CATGTGAAGA CGAGTAATAC CGATTCGnTT TGTTTCACCG TCGACTTCGA	180
30 ·	TATCGATATA TCCCATTTCA CCAATTGGGT TGATCAATTG AGAATTTGAT AGCTTTGGGA	240
	TATCGGGATA GAATAGTCTA CGGTCAACTA GATChGGTGC GANTCCATAT TTAGTGCCAT	300
	GCAGCACGCA T	311
35	(2) INFORMATION FOR SEQ ID NO: 3086:	ã
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 271 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:	
	ATGTAAATGA TCATCCTTCA TAATAACAAC GATTACTGAT CTTGATCATG ATTTTGAACA	60
	ATAACAACTG CTTTATTAAT ACCTTGTATA CGCTCGAGnC ATGCCAACCT CTGACAACTC	120
50	AATCCTAAAC CCTCGAATCT TAACTTGTTT GTCCTTTCGA TATAAATAAT CTATGTTGCC	180
	ATCCCCTARC ARROCARCA TATCACCACT TCCTATACAT CACCTCATTE ATACTOCAT	- 240

(2) INFORMATION FOR SEQ ID NO: 3087:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3087:		
	GTAAAGATTT CAATTCATCA TCTTTAAATA AACTTAATGG TAATTnGTTA	TACCHAATAA	. 60
15	AGCCTTCTGG ACACTTCCTT TAGACCGACG ACCGTCTTAG CTAATGTCGA	TTTCCCTGAC	120
15	CCTGATTCAC CGACAATGCC TAATGTTTCG CCTTTTCTAA TAGCCAAGTT	AATATCATAA	180
	CTGCTCGGTA TGGGCTGCCC CTCGGTGATG TGTAATCCAC GCTCCACGCG	ATCGATTTTA	240
20 ·	ATAAAATATC ATGGTT	*	256
	(2) INFORMATION FOR SEQ ID NO: 3088:		
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		· ·
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:		
	AAGGTTATTT GAATGATCAA GGTATCCACA AAAGAGGTGC TGAAATAGAT	CGACTCGTTA	60
	AAGGATGTAC AGGTGTTAAA CGTACAACTG GACAGCATCC AGGGGGTATT	ATTGTAGTAC	120
35	CTGATTACAT GGATATTTAT GATTTTACGC CGATACAATA TCCTGCCGAT.	GATCAAAATT	180
	CAGCATGGAT GACGACACAT TTGATTTCCC TTCCTnTCAT GATATGTATT	AAAACCTGAT	240
40	AAACHTGGAC ACGTGATCCC ACCATGATCG ATGCCTCCAG ATTATCAGGA	ATGATCCAAA	300
	ACCATACCTG AGATGTAAGA GTATCAGTAT TAGACNC	•	337
	(2) INFORMATION FOR SEQ ID NO: 3089:	*	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: -303 base-pairs- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50		y	
,	(vi) SECHENCE DESCRIPTION: SEC ID NO: 3089:		

	AAACATTACT TTACGCTATC AATGGTGGTA AAGATGAAAA TCTGGTGCAC AAGTTGGTCC	120
	AAACTTCGAA GGTATTAACA GCGAAGTATT AGAATATGCC GANATTCAAG AATTTGATCA	180
5	AATGATGGAT TGGCCTAGCA GGTGTTTACA TTAACTCATT AAATGTATNA CTACATGCAC	240
	GATAATACAG CTATGACGAT TGAATGGATT ACATGTACAG AATTGTCCGn CCATGGCACA	300
	GGA	303
10	(2) INFORMATION FOR SEQ ID NO: 3090:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3090:	
	CTTTCGTTAA AGGGGCATAT TCATATAATG GATGGTCATT AATAATAATT CCTGCCGCAT	60
	GTGTAGATGT ATGTCTTGGT AAACCTTCTA ACTTTTTACA AATACTGAAC CAGCGTTCAT	120
25	GTCGATGGTT TCGATGTACA AACTCTTTAA AATCGTCAAT TTGATATGCT TCATCAAGTG	180
	TAATTCCTAA TKTATGTGGG ATTAAACTTG GAAATTTCAT TLAATGTAAC TTCATCAAAC	240
30	CCCATAATTC TTCCAACATC TCTAGCAACT GCTCTTGCAA GCAGATGACC GAAAGTCACA	300
50	ATTCCAGATA CATGTAGCTC GCCATATTTT TCTTGGACGT ACTGAATGGA CCCTTTCTCG	360
	GNGTGTATCT GCAAGGTCAA TTTTCATTnT CAGGCATGGT	400
35	(2) INFORMATION FOR SEQ ID NO: 3091:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, 'n
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3091:	
45	TTGTTTTTTC ACGTTCAATn ATTATCTTCA ACTTGTGACT ACAGATTTTA AAATGGAATT	60
	TACAAGTATC TTCTTCAATA TTTTGCATCA TGATATCAAA TAATTCATGA CCTTCATTTT	120
	GATAGTCACG TAATGGATTT TGTTGTGCAT AAGAACGTAA GTGAATACCT TGACGTAATT	180
50	GGATCCATGT GTCGATATGG ATCAGTCCAA TGGCTATCAA TAGAACGAGG TAAAATCATA	240
	CGCTCAAACC CCATCCATTG GNTCCTCTAA GATACCTTTT GACCTTGGAT AGCNGCTCAA	300

(2) INFORMATION FOR SEQ ID NO: 3092:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3092:	,
-	CGACACCTCA ATAATCATAT CGTAATGTTC AACTTTTCCT GATTTAAATG TAATTTCATT	60
	TCCATTGATA GCATTAATTT CCTCATTTAA ACGGTATGGA ATCTCCCGCT TATCTAATTC	120
15	ATCAAGTATA GGTTGATTCA GTCGGCATCC ATAATTTATT TATCTTATCA GATCGATGAA	180
,	TAAAGTAGGG TGTAAACCAC GTTCCATAAA GATTTCAAGG AACTCCAATG GAACATAACC	240
20	TGCACCTACC ACCAATACTT TATCCACTTG GATTGGCTTG GAGGAATGGT CGGATAGGCA	300
	TCCAGGGCCT CCAAAATTCC nAGGGGAAAn GGTAATATCC ACCTTCCAAG GCCAAGGGCC	3,60
	AATTGGCACC TGGCCACCCA GGGnCTTAAA AAGGGGTTAA	400
25	(2) INFORMATION FOR SEQ ID NO: 3093:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3093:	
	TTATACCCGn CAAATTCATA AATATAGTnC CTTTTCAATA GATTGATATG TATGTCTAAA	60
	TGTATCGATT AACTTTGCTA ATGCTGCTTC ATCTAATGGT CGGTCTGCTA ATTTTAAAAA	120
40.	TGTATTCTTC AATAGGTATT CCCATATAAT GCGTTATTTC TTTAGATGAT GGTTCCGTTA	180
	AGCCACATGC TTTAAATGCA CTTTGTGTTG CTACTTCACC ACATTTTTTC GTGTCTGCCA	240
	ACGTACCATC AA	252
45	(2) INFORMATION FOR SEQ ID NO: 3094:	- '
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AATCTATTAA TAATGAAGAA AAAATTGTAC TAGCACGTAG ACGGTTAATA AAGTTCGATA	60
	AAGATATCAG TATTCCATAT ATTCTAAAGC AAGCATATTC TAAAGAAAAA AACAGTTATA	120
5	TATTCTTGTT AGAATCACAA GATTCTATAT TCTTTTCACA AACACCTGnn CAATTAATAA	180
	AGGTCAATAA TAAAATCTAT CGACTAAAGC TGTGCAGGTC AATTAAACGG TCACAAGTGA	240
	GGCCGAGGTA CAAAAAATGT TGAGCATTTT AAAGTATAAA CTTATCGACA CGnTTGTGTG	300
10	CAGTTTTCAT GTTT	314
	(2) INFORMATION FOR SEQ ID NO: 3095:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3095:	
	GGTGAGGCGG CATTGAGAAA AAATGCTGAA GTAATCGAAG CTGTATCGCA GTCTTGTTTG	60
25	ACAACAGGAT TTTGTTTATG GTGCCAATTA GCTTTTTCAA CGTATTTAGA AAATGCCACG	120
	CAGCCACATT TAAATAATGA CTTACAACAG CAATTGTTAT CTGGAGAAAT ATTAGGTGCT	180
	ACCGGATTGT CTAATCCCGA TGAAGTCATT TAATGGATTT AGAANAAGTT GGACCCTTTG	240
30	AAACACCACC TTAATGTTGG ATGGGACCAA TTGGGTGGTC CAGTGGGANC GTAATGCCCA	300
	GCTGTAAAGT NATAATCCAA GGAAAGACCC AT	332
35	(2) INFORMATION FOR SEQ ID NO: 3096:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	• •
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3096:	
45	TTTATGCATA CGCGCACTCA TCACACTACC GACAACAACA TCATCTTTTC GAGCATATCT	60
	ACTTAACAAC GTCATGACCA CACTCATAAA GAACATAAAA TCAGTAATTT GATGCTTTTC	120
50	TACATACTTT TGAAGTAGCT GTCTCATTTG TTGATTCATG TAAATGACAT CATGCTCCAT	180
	TTGTCGGTTT AATAATTGGT CTAACATANT CTGTCGGGTA AGCCTAAAAT AGGGTACTTC	240
	ATCCTTGAAT TGAGGATACC CATATTGGTC CTAAGGTTCG GTCCATATCC ACGGATGGCG	300

	THE PROPERTY OF THE PROPERTY O	400
	(2) INFORMATION FOR SEQ ID NO: 3097:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3097:	:
15	ACTCTGGTCC TTCTGCATAA CTGCCGTAAA TAATTCACCT TCATCACACG CTGTACCTAC	60
	CAATAATCCC nCACGATATA CGTGGAATTC GAGGTGTACG GTAGAAATAC TTCACCAATG	120
	ATGCACTTAC AATTTTAAAT AGATTTTTAA GACCTTGTTG GTTTTGTACA ATTAATGTGA	180
20	CATGACTAGG TCTTGCACGT TTATATGCAT CTTCATTACT GAGTTTTTTG GTTGATTTnC	240
	GTTATGATTT AATACGGCTA ATTCT	265
	(2) INFORMATION FOR SEQ ID NO: 3098:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3098:	
35	CTAATGTATC AGTTTGGCAT GAATTCTTTT GCATCTTTCA ATAATTGTTG TGATCTTTTT	60
	TAGTCACATC ATCAATTTC TTATCTTCGT ATAATGCTTT TTCAATCTTA TGATATCCTG	120
	ACCATTCTTT TTCCTTTTC TCTTCTTTCA TATCTGCAAG CGGGCATCCA ATTTTAGGAT	180
40	CCTAAATCTC CCAAATGCTT CTGAACTGGT CAGAGCGTCA TAATACATAC GACTTTTGGA	240
	TATACGCTTT THCTTGGGCA TACATTATTT CAATCGTTTA CAAATTTTTC TGACCTTTTA	300
	AAATCATTnA CTGTCAnCAG A	321
45	(2) INFORMATION_FOR_SEQ_ID_NO: 3099:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs	
50	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	*

	ALCOCANIC TONORMACKI CATCHIGANG GITCOMILL TONOTCHIA		80
	AATCAGATGA TGAATGGCGA GAGTTTGGAC TAAATCATTT TGTATTACCT GAAGTTTTAA		120
5	TTTCAACTGA TAATAATGGG ACATTTTTAA CTTATACAGT TAAAAGGGAA AGTTTTACTG		180
	TTGAGGCATT GAACGATTTA ATGGATTGTT CAACAATATA TCGGACATAG AGTGGACGAC		240
10	CAATGGGGGA ATACCAGAAT GAGATATTAT AAAACA		276
.•	(2) INFORMATION FOR SEQ ID NO: 3100:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3100:	•	
	GTCATTTGAT GACAATGGTA TTAGACCAAG TACCAACCGT TCTGTGCCAC nTAAAACGTT		60
05	GTTAATAACT TGCCGGGCTT CACACTAATC AATGGTGGCA AAGTAGGGGT GTTTAGTCAT		120
25	GCAANGTTAA GAACGAGCAT GTTTGATTCA GGAGATAATA AGAACTATCA AGCACAAGGA		180
	AATGTAATTG CATTAGGTCG TATACATGGA ACTGATACGA ATGACCATGG CGATTTT	-	237
30	(2) INFORMATION FOR SEQ ID NO: 3101:	•	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		,
35	(D) TOPOLOGY: linear		
			,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3101:		
40	NCGATATAAC AAGGTTGTTA GACTTAAAGG TGGCGATCCA GCGATATTTG GTCGTGTGCA		60
	AGAAGAAGTC GACATACTAA ATGAACATCA TATTGCGTTT GAAATTGTAC CAGGGGTGAC		120
	ATCAGCGAGC GCNAGTTTGG CTACTATGCA GACAGGTTTG ACAATGCGTA CAGTTGCTAA		180
45	AAGTGTGGAC ATTTTCTACA GGTCACTTTT AAAGATTCAG AAGAAAATGA AGTGGGATGG		240
	TCCATTCCTT AAGT		254
50	(2) INFORMATION FOR SEQ ID NO: 3102:	, -	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 240 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3102:	
	CAATCACTCA TGTAGTAATT GATACCTAAG AAGTCGTTTA AATCTTTGGC TGCATCTAAA	60
5	ATGGCATAAT CTTCATnTGT AATGTTTAAT TTACCGCCAn TAACAGATAA GATATGTTGC	120
	ACACCTICCA TEGITICACG AGIAATACTI ACCTAAATAT GTTGCATCTA AGATGAATIT	180
10	ATTATGGATG GATATCTTCT AAATTCTGCT GCACGGGACA TCTTCAGGAT TTGGATGGTT	240
70	(2) INFORMATION FOR SEQ ID NO: 3103:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3103:	
	GTTGTAAACT TCAATTGTTC AAATAAATAA CACATATCAT TGGAGGTGAA TTGATATGCC	60
	AGATTCAATC ACAATTATAG ATGAAAACAA AGTGGTTGAT GTTGTATTAA TTGCAGGTAG	120
25	AATTTTACTT GAATCAGGTG CTGANACATA TCGAGTTGAA GATACAATGA ACCGTATCGC	180
	ACATAGTTAT GGTCTTCATA ATACATATAG TTTTGTCAGT TCAACTGCAA TTATTTTTTC	240
	ATTAAACGAT CGAACAAGTA CAAGATTAAT TCGTTACAAG AGCGTACAAC AGATTTAGGG	300
30	AAngTGCGAA TAAGCGGGGn AATTCTTC	328
	(2) INFORMATION FOR SEQ ID NO: 3104:	:
. 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ú.
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3104:	
	TTTTGCTTTG TGCGCTAATA ATCTAATGTT CGTGGAACCG nAACCAGAGA TATTACAAAT	60
45	ACATCATCGA CTAATCGCAG GTGTCGTTGA TTCTCCAACA ACATGTGCCT GTTTGCCGAG	120
	CTGATTTAAG GCGCATTGC AAAACTATTC GCCACGAATC CTGAACGTCC TTTGCCAGCT	180
	ACAAATATAT GTTCAGCATG TAGTATTTTG GATGCAAAGT TGAAAACTCA TCCGCTTCAA	240
50	CAMCINGA CAA A CINCA CINITIA ATICAA	265

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: lin ar	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3105:	
,,,	ACTAGTAGAG TATCTAATGG TGATTTAATC ATTATTACTG CTGGTGTACC AACTGGTGAA	6
	ACTGGAACTA CTAATATGAT GAAAATCCAC CTANTTGGTG ACGAAATTGC TAATGGTCAA	12
15	NGTATTGGAC GTGGATCAGT TGTTGGTACT ACATTATTGC TGAAACTGTT AAAGATTTAG	18
	AAGGTAAAGA TTTATCTGAC AAATTGATCG TTACTAACTC AATCGATGAA ACGTTTGTGA	24
	CCT	24
20	(2) INFORMATION FOR SEQ ID NO: 3106:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	ı
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3106:	
30	CTATTGCGTT TGGGTAAATC TAAAGCAGGC GTANATTATC AAAGTTTGGG ATATGCAACC	60
	AGCACACTTA TTCTTTATGA TTGCAGCGCC AGAAGTGGnG CCCAAACACA TCTAGATGCT	120
35	TTACTAAGTT GTCTGGTATT TTAATGGATG AAAATGTACG TGAGAAATTA TTACATGCTT	180
•	CATCACCTGG AAGAAGTACT AGCGATCATA GATGAGGCTG GATGATGAAG TGGA	234
•	(2) INFORMATION FOR SEQ ID NO: 3107:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3107:	
	TTTTGAAGCG GCATAATCAT GAAGAATAGG ACTAGGATTA TAACCTTGTA CAGATGATGT	60
50	CGTTGTAATT GACGCACCCG GTTTTAAATA TTCCAATGAC TTTTTGAACT GTCCAAAATA	. 120
	CCCC+TACA ATTCCTTTCA DATCTTTCTC TARATCCCTC BCTTCTAATA CCATCAATAT	100

(2) INFORMATION FOR SEQ ID NO: 3108:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·,
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3108:	
	CTTTAAGTTA CGTTCGGCTT TGATTAAAGT AAAACGTGGT ACTGTTTCCT ATGACAAGAG	60
15	TCTAATTGGA TACAATGTAA ACAAAATGGT GnATTTGTAT TATAGATAAT AAACATTCGn	120
	TATACATTCA ACATATCGAT GACCACTTGG ATTAAGCAAC GTAATATCAT TCGTACTGCT	180
	CAAGAAATGA CAAACGAAAT ACGAGAAAAT TTTGAGTCAT ACACGTCATT TAGAATGAAT	240
20	AGTATTATGC AAGTACT	257
	(2) INFORMATION FOR SEQ ID NO: 3109:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
ž,	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3109:	
,	CTTAAAGCCA AGTCGATCTG CTAATTTTGC AAGTGTCACT GAATCTTGCA ATGCCTTTTG	60
	TGCATCCTTA CCTTCATCTA TTAAGGCATA GTCTAATACG CTTAATTTAA CCAATCCGTC	120
35	ATCTCCAAAC TTATCCTGTC ATGTCAAACC GACATAACAT TTGTAGCGTT CTTAATACCA	180
	TTCCCTCTGC ATATACCCAC GTATATGATA ACGTTTTCA TTTAACT	227
40	(2) INFORMATION FOR SEQ ID NO: 3110:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid	· · · · ·
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·	A CONTRACT PROGRESSION, SEC. ID NO. 3110.	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3110:	60
•	TTTCTTCATC GTTTGTGAGA AAGAGGTATT TTTAATTGGG AAAACAGGTA AAAAGGATGG	120
	AAGTACATAA AAAGAGCAAT GCTTGGGCAT TATTCCnCTT GTTATTATTT GTGGCGTTGT	121

	CHIMICOLD INCIDENT INFORMAC CAMPAGNATE ALIGERAMA ACCRECATE	240
	CGAAAGGCGG CCTTCAACTG TTAAGAGTGA TTTATTGCAG GCTTCAATCG CGAAATGGTG	300
5	Chaagegest attageacta geegaa	326
	(2) INFORMATION FOR SEQ ID NO: 3111:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3111:	
	CTACGGCGCC TTGCATCTTT CCCAACAATT AACCCCAACT CTATTAGCAC AGATTTATCA	60
20	ATTGATTCAT AAGCTTCATC AAAGGGTGAA CTAACATGCA TTAACGCTTC TTTAATATCA	120
	ATTAGTCGG CATGTTCAAC ACCAATTTTC CCTTTTTTAT TTTTAGCTTT TTCTCTATCA	180
	ATATACGCAT GTTTAACACC TTTGACATGT TCAGTAAATT GTGACTTCCT NAATTTTTTA	240
25	TCCTCCCTTG GTGnnGGGGG GGGGGGGGGG GGGGGGGGGG	300
	(2) INFORMATION FOR SEQ ID NO: 3112:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3112:	
	TTATTGTTAA CACAAGGnTT CGAACAAGGT TGGTTTAGTA CATTTTCAAT CATTTGTCTG	60
40	AGCATTTTTA TCATCACTAC GTTGATATTC ATCATCATCG AACGTCGACA TGAAGTACCT	120
	TTTATTGATT TCTCAGTATT ACGCAACCGT CCGTTCATTG GTGCATTTTT AAATAACTTT	180
	GTTTTAAATA GCGGTCTAGC GTAACAGGGT CTTTCATATA TGCTCAACAC ACCTGGTTTA	240
45	TCGCGCGCAA TCGGACTGTT ACATGCCAAT GCCATGGGCG TTCGAGATCG TTAGTGAAAG	300
	CACATAGTTC GGGCAATGAG CCACATGGTC GTGTCCGTCA CGCACACATA TAGCAGCT	358
	(2) INFORMATION FOR SEQ ID NO: 3113:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3113:

`	TCGGTCTTGA AAACCGACAG GGGACTTAAC GGCTCGCGGG GGTTCGAATC CCTCTTCCTC	60
5	CGCCATCAAT ATTTATATTA AATTCTATAT ATAATGAAGG TAAGTGCTCA AATTTTGAGT	120
•	ATTTACCTTT TTTATTTGTC TTTGAATGGC TCGTAATTTT TGATAATAGA AATGATAAGG	180
	CATTGAGATT GGAAGGGCAT TTGGCTTGTG CAANATACAT AGCNAAATGT CGTTGTTGTT	240
10	TTGTGATAGA T	251
	(2) INFORMATION FOR SEQ ID NO: 3114:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6591 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3114:	· '.
	TTTAAGTGAA TTnCTTTGGG TTACAGAAWT TTCAACAACT TTAAAGCACG TATAATGATG	60
25	ATTTTCAGCT TGTACAAAGG AGAAAAAAAG AAGACAACCA AGCCCAATAA TGGACTGGCC	120
	GCCTAATAAT AAAAACTCTA AAAGTTGTAT TTTAAAAATA GTTCTTTAAA TTATATACCC	180
	ACCACATTTG GTGGAGAACC GTTAAACAAT GCATAGTTGC TTAACTTCCA ATATTGAACT	240
30	CATCATTACA ATTTGACATA GAGTCTATTA AAGCGTGTGC CATTTGAGTC CACTTTTATT	300
	TGTATTGTAT AGAGAGAAT AAAAAGAAAC CTTGTTTTAC AAGGTTTCTA ATACGTTATG	360
	TTATGTAAAT AACAGTTAAT TATACCGGTG GTCGGGGTCG AACCGACACT CCACAAGTGG	420
35	AACGGGATTT TGAGTCCCGC GCGTCTGCCA ATTCCGCCAC ACCGGCTTAA TGGTAAACAA	480
5	AAAACTTCCC TTTGGAAGCA ATTATGGAGC GGAAGATAGG ATTTACACCT ATACCTCGTT	540
40	CCGGGAAGGA ACGTGLTCTA AAAGTTGAAC TACTCCCGCA AATATTAAAT TATGGAGCGG	600
10	AAGATAGGAT TTACACCTAT ACCTCATTCC AGGAAGGAAT GTATTCTAAG AGTTGAAATA	660
	CTCCCGCATT ATTATTAAAT TATGGAGCGG AAGATAGGAT TTGCACCTAT ACCTCGTTCC	720
45	GGGAAGGAAC GTGTTCTAAA AGTTGAACTA CTCCCGCATA AACCTGGAGG CGGCAACCGG	780
	ATTTGAACCG GTGATAAAGG TTTTGCAGAC CTCTGCCTTA CCACTTGGCT ATGCCGCCAA	840
	TAACTGGGCT AGCTGGATTC GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG	900

55

	CGAACCCACA	CCAAAGGTTT	TGGAGACCTC	TATTCTACCG	TTGAACTATG	CCCCTATTAA	1080
	AAATAATAAA	TGGAGGGGG	CAGATTCGAA	CTGCCGAACC	CGAAgGAGCG	GATTTACAGT	114
5	CCGCCGCGTT	TAGCCACTTC	GCTACCCCTC	CATAAATGGT	GCCGGCCAGA	GGACTTGAAC	1200
	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	CTACCAATTG	AGCTAGGCCG	GCTAAGAAAT	1260
10	GGTTCAGGAC	AGAGTCGAAC	TGCCGACACA	TGGAGCTTCA	ATCCATTGCT	CTACCAACTG	1320
10	AGCTACTGAA	CCATAATAAA	AATGTAATGA	TGGCGGTCTC	GACGGGAATC	GAACCCGCGA	1380
	TCTCCTGCGT	GACAGGCAGG	CGTGTTAACC	GCTACACTAC	GAGACCTATA	AAATATTGCG	1440
15	GGAGGCGGAT	TTGAACCACC	GACCTTCGGG	TTATGAGCCC	GACGAGCTAC	CGAACTGCTC	1500
	CATCCCGCGA	TAATAAAAA	TAATGGCGGA	GGAAGAGGGA	TTCGAACCCC	CGCGGCCCGT	1560
	TAAGGCCCTG	TCGGTTTTCA	AGACCGATCC	CTTCAGCCGG	ACTTGGGTAT	TCCTCCATTA	1620
20	TTATAGGTAA	ATCGCTATTA	ATTATAAAAT	TAAATGGCGG	TCTCGACGGG	AATCGAACCC	1680
	GCGATCTCCT	GCGTGACAGG	CAGGCGTGTT	AACCGCTACA	CTACGAGACC	ATTAGTAAAA	1740
	CGGAGGAAGA	GGGATTCGAA	CCCCGCGAG	CCGTTAAGCC	CCTGTCGGTT	TTCAAGACCG	1800
25	ATCCCTTCAG	CCGGACTTGG	GTATTCCTCC	AAAATTATAT	GGaCtTGCAG	GACTCGAACC	1860
	TGCGACCGAA	CGGTTATGAG	CCGTTAGCTC	TAACCAACTG	AGCTAAAGGT	CCTAAATATA	1920
30	ATTTTACAAC	TAATAAATAG	TGGCGGTGGA	GGGGATCGAA	CCCCGACCT	CACGGGTATG	1980
	AACCGTACGC	TCTAGCCAGC	TGAGCTACAC	CGCCTTATAT	AGTTTGTAAA	TAATATGGTG	2040
	GAGACTAGCG	GGATCGAACC	GCTGACCTCC	TGCGTGCAAA	GCAGGCGCTC	TCCCAGCTGA	2100
35	GCTAAGCCCC	CATAATAATT	ACAGTATATC	GGGAAGACAG	GATTCGAACC	TGCGACCCCT	2160
	TGGTCCCAAA	CCAAGTGCTC	TACCAAGCTG	AGCTACTTCC	CGTATAATTA	ACGCGCCCGA	2220
•	TAGGAGTCGA	ACCCATAACC	TCTTGATCCG	TAGTCAAACG	CTCTATCCAA	TTGAGCTACG	2280
40	GGCGCATATG	TTTTTATTGA	AAATGGTGCC	GAGGACCGGA	ATCGAACCGG	TACGGTGATC	2340
	ACTCACCGCA	GGATTTTAAG	TCCTGTGCGT	CTGCCAGTTC	CGCCACCCCG	GCACTATAAA	2400
45	AATGGAGCAG	AAGACGGGAT	TCGAACCCGC	GACCCCAACC	TTGGCAAGGT	TGTATTCTAC	2460
45	CGCTGAACTA	CTTCTGCATA	TGCGGGTGAA	GGGAGTCGAA	CCCCACGCC	GTAAGGCGCT	2520
	aGATCCTAAG	TCTAGTGCGT	CTGCCAATTC	CGCCACACCC	GCAAATGGTG	AGCCATAGAG	2580
50	GATTCGAACC	TCTGACCCTC	TGATTAAAAG	TCAGATGCTC	TACCAACTGA	GCTAATGGCT	2640
	CTTCCATGGT	GCCGGCCAGA	GGACTTGAAC	CCCCAACCTA	CTGATTACAA	GTCAGTTGCT	2700
	CTACCAATTG	AGCTAGGCCG	GCAATATGTA	AGAATAAATG	GTGGAGĀĀTG	ACGGGTTCGA	2760

	AAACTGCCTG	GCAACGTTCT	ACTCTAGCGG	AACGTAAGTT	CGACTACCAT	CGACGCTAAG	2880
	GAGCTTAACT	TCTGTGTTCG	GCATGGGAAC	AGGTGTGACC	TCCTTGCTAT	AGTCACCAGA	2940
5	CATATGAATG	TAATTTATAC	ATTCAAAACT	AGATAGTAAG	TAAAAGtGnA	TTTTgctCGC	3000
	AAAACATTTA	TTTTGATTAA	GTCTTCGATC	GATTAGTATT	CGTCAGCTCC	aCATGTCACC	3060
	ATGCTTCCAC	CTCGAACCTA	TTAACCTCAT	CATCTTTGAG	GGATCTTATA	ACCGAAGTTG	3120
10	GGAAATCTCA	TCTTGAGGGG	GGCTTCATGC	TTnAgGATtT	TCAGCACTTA	TCCCGTCCAC	3180
	ACATAGCTAC	CCAGCTTATG	CnTTGGCACG	ACAACTGGTA	CACCAGAGGT	ATGTCCATCC	3240
15	CGGTCCTCTC	GTACTAAGGA	CAGCTCCTCT	CAAATTTCCT	ACGCCCACGA	CGGATAGGGA	3300
	CCGAACTTCT	aCGACGTTCT	GAACCCAGnC	sTGTACCGCT	TTaATGGGCG	AACAGCCCAA	3360
	CCCTTGGGAC	CGACTACAGC	CCCAGGATGC	GATGAGCCGA	CATCGAGGTG	CCAAACCTCC	3420
20	CCGTCGATGT	GAACTCTTGG	GGGAGATAAG	CCTGTTATCC	CCGGGGTAGC	TTTTATCCGT	3480
٠.	TGAGCGATGG	CCCTTCCATG	CGGAACCACC	GGATCACTAA	GTCCGTCTTT	CGACCCTGCT	3540
	CGACTTGTAG	GTCTCGCAGT	CAAGCTCCCT	TATGCCTTTA	CACTCTATGA	ATGATTTCCA	3600
25	ACCATTCTGA	GGGAACCTTT	GAGCGCCTCC	GTTACCTTTT	AGGAGGCGAC	CGCCCCAGTC	3660
	AAACTGCCCG	CCTGACACTG	TCTCCCaCCA	CGATAAGTGG	TGCGGGTTAG	AAAGCCAACA	3.720
	CAGCTAGGGT	AGTATCCCAC	CAGCGCCTCC	ACGTAAGCTA	GCGCTCACGT	TTCAAAGGCT	3780
30	CCTACCTATC	CTGTACAAGC	TGTGCCGAAT.	TTCAATATCA	GGCTACAGTA	AAGCTCCACG	3840
	GGGTCTTTCC	GTCCTGTCGC	GGGTAACCTG	CATCTTCACA	GGTACTATGA	TTTCACCGAG	3900
35	TCTCTCGTTG	AGACAGTGCC	CAAATCGTTA	CGCCTTTCGT	GCGGGTCGGA	ACTTACCCGA	3960
	CAAGGAATTT	CGCTACCTTA	GGACCGTTAT	AGTTACGGCC	GCCGTTTACT	-GGGGCTTCGA	4020
	TTCGTAGCTT	CGCAGAAnct	Arccactcct	CTTAACCTTC	CAGCACCGGG	CAGGCGTCAg	4080
40	CCCLATACAT	CACCTTACGG	TTTAGCAGAG	ACCTGTGTTT	TTGATAAACA	GTCGCTTGGG	4140
	CCTATTCACT	GCGGCTCTTC	TGGGCGTTAA	CCCTAAAGAG	CACCCCTTCT	CCCGAAGTTA	4200
•	CGGGGTCATT	TTGCCGAGTT	CCTTAACGAG	AGTTCGCTCG	CTCACCTTAG	AATTCTCATC	4260
45	TTGACTACCT	GTGTCGGTTT	GCGGTACGGG	CACCTATTTT	CTATCTAGAG	GCTTTTCTCG	4320
•	GCAGTGTGAA	ATCAACGACT	CGAAGACACA	ATGTCTTCTC	CCCATCACAG	CTCAGCCTTA	4380
50	ACGAGTACCG	GATTTGCCTA	ATACTCAGCC	TTACTGCTTA	GACGTGCAAT	CCAATCGCAC	4440
	GCTTCGCCTA	TCCTACTGCG	TCCCCCCATC	GATTAAAACG	ATTATAGGTG	GTACAGGAAT	4500
	ATCAACCTGT	TATCCATCGC	CTACGCCTGT	CGGCCTCAGC	TTAGGACCCG	ACTAACCCAG	4560

	TTCGCTACTC	ACACCGGCAT	TCTCACTTCT	AAGCGCTCCA	CATGTCCTTA	CGATCATGCT	4680
	TCAACGCCCT	TAGAACGCTC	TCCTACCATT	GTCCAAAGGA	CAATCCACAG	CTTCGGTAAT	4740
5	ATGTTTAGCC	CCGGTACATT	TTCGGCGCAg	TGTCACTCGA	CTAGTGAGCT	ATTACGCACT	4800
	CTTTAAATGA	TGGCTGCTTC	TAAGCCAACA	TCCTAGTTGT	CTGGGCAACG	CCACATCCTT	4860
	TTCCACTTAA	CATATATTTT	GGGACCTTAG	CTGGTGGTCT	GGGCTGTTTC	CCTTTCGAAC	4920
10	ACGGACCTTA	TCACCCATGT	TCTGACTCCC	AAGTTAAATT	AATTGGCATT	CGGAGTTTGT	4980
	CTGAATTCGG	TAACCCGAGA	GGGCCCCTC	GTCCAAACAG	TGCTCTACCT	CCAATAATCA	5040
15	TCACTTGAGG	CTAGCCCTAA	AGCTATTTCG	GAGAGAACCA	GCTATYTCCA	GGTTCGATTG	5100
	GAATTTCTCC	GCTACCCTCA	GTTCATCCGC	TCACTTTTCA	ACGTAAGTCG	GTTCGGTCCT	5160
	CCATTCAGTG	TTACCTGAAC	TTCAACCTGA	CCAAGGGTAG	ATCACCTGGT	TTCGGGTCTA	5220
20	CGACCAAATA	CTAAACGCCC	TATTCAGACT	CGCTTTCGCT	ACGGCTCCAC	ATTTACTGCT	5280
	TAACCTTGCA	TCAAATCGTA	ACTCGCCGGT	TCATTCTACA	AAAGGCACGC	CATCACCCAT	5340
	TAACGGGCTC	TGACTACTTG	TAAGCACACG	GTTTCAGGTT	CTATTTCACT	CCCCTTCCGG	5400
25	GGTGCTTTTC	ACCTTTCCCT	CACGGTACTG	GTTCACTATC	GGTCACTAGA	GAGTATTTAG	5460
	CCTTAGGAGA	TGGTCCTCCC	AGATTCCGAC	GGAATTTCAC	GTGCTCCGTC	GTACTCAGGA	5520
30	TCCACTCAAG	AGAGACAACA	TITTCGACTA	CAGGATTATT	ACCTTCTTTG	ATTCATCTTT	5580
30	CCAGATGATT	CGTCTAATGT	CGTCCTTTGT	AACTCCGTAT	AGAGTGTCCT	ACAACCCCAA	5640
	CAAGCAAGCT	TGTTGGTTTG	GGCTCTTCCC	GTTTCGCTCG	CCGCTACTAA	GGGAATCGAA	5700
35	TTTTCTTTCT	CTTCCTCCGG	GTACTAAGAT	GTTTCAGTTC	TCCGGGTGTG	CCTTCTGATA	5760
	TGCTATGTAT	TCACATATCG	ATAACATGAC	ATAACTCATG	CTGGGTTTCC	CCATTCGGAA	5820
	ATCTCTGGAT	CAAAGCTTAC	TTACAGCTCC	CCAAAGCATA	TCGTCGTTAG	TAACGTCCTT	5880
40	CATCGGCTTC	TAGTGCCAAG	GCATCCACCG	TGCGCCCTTA	ATAACTTAAT	CTATGTTTCC	5940
	ATCCTACAGG	AAACGCGTTA	TTAATCTTGT	gaGTGTTCTT	TCGAACACTA	GCGATTATTT	6000
	CTTATGAATT	CAAGCTTATT	TAAAACTCTT	TATTCACTCG	GTTTTGCTTG	GTAAAATCTA	6060
45	TATTTTACTT	ACTTATCTAG	TTTTCAATGT	ACAATTTCTT	TTTAGTCAAG	CGCTCGCATA	6120
	AGCAATATCA	CTTTAACCAA	AAAATATTTG	AATGTTAAAT	AAACATTCAA	AACTGAATAC	6180
50	AATATGTCAC	ATTATTCCGC	ATCTTCTGAA	GAAGATGTTC	CGAATATATC	CTTAGAAAGG	6240
	AGGTGATCCA	GCCGCACCTT	CCGATACGGC	TACCTTGTTA	CGACTTCACC	CCAATCATTT	6300
	GTCCCACCTT	CGACGGCTAG	CTCCTAAAAG	GTTACTCCAC	CGGCTTCGGG	TGTTACAAAC	6360

	ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT TGCAGACTAC AATCCGAACT	6480
	GAGAACAACT TTATGGGATT TGCTTGACCT CGCGGGTTCG CTKGCCTTTG TAATGTCCAA	6540
5	TGTAGCACGT GTGTAGCCAA ATCCATAAGG GGCATTATGA TTTGACGCAT C	6591
•	(2) INFORMATION FOR SEQ ID NO: 3115:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	· · · · · · · · · · · · · · · · · · ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3115:	
	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
20 ~	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
	TGTAATTGTT TGTGTTTACG TATTTCTGGT GTAAGTTCCG TGAAACCAAT GTCTATATTC	180
	CCATTAATAC GCTATTATAA TGTGTCAGGT CCAATAAGCC CCGGATGACA TGTGTATCCA	240
25	TTTGGAAATG GAACCGTTGG GAAAGTGGGA ATAACATGGG GGAACGTCAN TCCCCCCCAA	300
	GCCCATnGAG GTACCTTTAA TTTTA	325
30	(2) INFORMATION FOR SEQ ID NO: 3116:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
		Ŀ
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3116:	
40	CCGnTTGAGT TCGGTGGCGA CATGATTGAT TTTGTAAGTA AGTATGATGC AACATGGGCT	60
	GnTTTACCTA CTAAATTTGA GGCGGGTACT CCATTAATTG CTCAAGCATT GGGCTTGTCA	120
	GAAGCTATTC GCTATTTAGA ACGCATAGGT TTTGATGCAA TTCATAAATA TGAACAAGAA	180
45	TTAACGATAT ATGCTTATGA GCAAATGTCT G	211
	(2) INFORMATION FOR SEQ ID NO: 3117:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3117:	
	AACGTnTTTT GAAATGATTG CGGCGATGTT GGCGACAGTT AAAGTAGGTG GCATCTTATA	60
5	TACCTATCGA TATTGATTTT CCGAATAAAC GACAAGGTGC AATTTTGGAG GATGCTAAAG	120
	TAACTGCAGT CATGTCTTAC GGCGTTGNAA TTGAAACGAC ATTACCAGTC ATTCAATTGG	180
	AAAATGCTAA AGGCTTTGTT GAATCAAAGG	210
10	(2) INFORMATION FOR SEQ ID NO: 3118:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3118:	
	TTAATTGATC CTAGCTTGGT TTGCCTCTGT CACTTTATCA TTGATATTTT GGACAGTTGG	60
	GTTGCCATTC AACACTTGAT TAATTTCAGT TAACTTTTGA CGCGCTGCTT GTAATTTTTG	120
25	GGTGTACGCA TTTAACGAAC GGnCGTCATA CCTGTTGTAT CCGTTGGTTG ATTAATGCTT	180
	GTTCTAAATT GCGTTTCCAA GTTTmAAGCG GCGCTTATCT GGTGT	225
30	(2) INFORMATION FOR SEQ ID NO: 3119:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3119:	
40	CCAACATGAT GCTAGTTTGA TTAAGTTTCT TCTAAACAGA CTTCAAACGG CATGGTTTAG	60
	CATATCCTAT TAAGGTTGAA TCGCGTTAAC AGCACATAGG AAATGCTGTT AGGCGATGCA	120
45	GAGTGCGATT AGGCAGCTAC TGGAAAATTA TTGTTTGATT TGCCAGTTAT TATAAACTGT	180
	GTGTGTTGAT GnCGAnCACA ACCCCTCCGA ACACGCTTAA TG	222
	(2) INFORMATION FOR SEQ ID NO: 3120:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3120:	
	CGGCGATTAT ATTAAAAAGC CAATTACAGA ATGTAGTGGT AATGAAATAT GCCAAGAATG	60
5	GCTGTATCAC TTAGGTGTAT CAACTGACAA AATTGAAGAC TTAGCAAAAC ATGCATCTAA	120
	tACGATTCCT GTTTATATGC CATATATCAC ATCTTATTTC ATGGACGCGT GCTATCGGCG	180
	NACAGACCTT TTAGTCGTGC CCGGCATGCA ATCTNCAGGA ACTTAGGCAT TTATTGGTGA	240
10	ACTTIG	246
	(2) INFORMATION FOR SEQ ID NO: 3121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3121:	
-	CAAATACCTT CTCAACnTTG TACTTTTTGC CTAATTGAGC TGCACGAATT GCTGCAACGT	60
25	ATCCACCAGG ACCTGCTCCG ATTACTATAG aTCTGTTTCA ATTGGGAAAT CTCCAACTAC	120
	CATGTTTTAC CCCTCCATTA ATAATAATTC TGGATTATTT AATAAACGTT TAATGTGATT	180
	CATTGCATTT TGGCCAGTTG CACCATCAAT TTGTCTGTGG TCAAAGCTTA ATGAKrtGCt	240
30	AATACTGGTG CTGCAACAAT TTCTCCATCT TTAACGATAG GTTTTTGAGC AATACGGCCA	300
	ATTCCTAAGA TTGCTACTTC TGGGGTGATT GATAACTGGA GTGAACCATT GTCCACCAGC	360
35	TGAACCGATA TTACTGATTG TGCATnnGCA CCTTnCATT	399
	(2) INFORMATION FOR SEQ ID NO: 3122:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3122:	
	CAGACAAACC TTGAATTATT CTACCTATAA TTAAAAATGC TGGCAAAGGT GTAATGATGA	60
50	TGAGTAATGA ACCTACAACA TTTAATATCA ATCCTACATA AGTAATTTTG ACGCGACCAA	120
50	ATTTATCAGC AACATCACCA GCACCTACGT AAACCAACCA GCCAATAAGG CAGATAAGCT	180
		040

	G	301
	(2) INFORMATION FOR SEQ ID NO: 3123:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 378 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3123:	
15	GGAGCAAATT TATCATCTGC AACTAGACAC AACATCACTG TTATTAGTAC CGGGTTATAT	60
	AGTAGCAGTC ATTGTTGGTG CACTAAGTGG TAAAATCGGC GAATATCTGA ATTCAAAACC	120
	AGCGATTATC ACAGCAATTA TTTAATAGCA CTGAGCTTGA TTTACCTGCA TTGCAGTAGG	180
20	TAATCACATT CAATCTCGTC ATTCTATGAT ATCTTGCAGT AGCTTGCTTA ATGATGCACT	240
	TACTACGAGC ATAAACATGT CTATATGCAG GTGCATGTTA TATTATATAT GGCGACGAGA	300
	TCGTnGGCCn ACGTTAACTA ATTCnGCATG TCTAGCCTCG AATTATATAG TAGGAGCGTA	360
25	GTACGCCAAC TGCCACGA	378
	(2) INFORMATION FOR SEQ ID NO: 3124:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3124:	
	TATTGCAAGA AATGAACTGC TGATTTTTAT AGTTTTAGTG GTCATAAAAT GCTTGGACCA	60
40	ACAGGTATTG GCGTATTATT TGGTAAACGT GAGTTACTAC AAAAAATGGA ACCGATTGAG	120
	TTCGGTGGCG ACATGATTGA TTTTGTAAGT AAGTATGATG CAACATGGGn CTGATTTACC	180
	TACTAAATTT GCAGGTCGGG TTACTCCCAT TGAATTGGCT CCAAGCCAAT TGGGGCTTGG	240
45	CnAGGAAGCC T	251
	(2) INFORMATION FOR SEQ ID NO: 3125:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•

Hami

2455

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3125:	
	CGGTTAAGTA ATACAGGATG TTCTCTAATT ACTTCTTCCA ATACGTCCCA AACTTCATCA	60
5	TCCATACGTT CGATTTACT CTTCGCATTT TTAATGTTAG TTGCAATTTC ACGTTGAACT	120
	AATTCTTTCA TTACGAATGG TTTAAATAGT TCAAGTGCCA TTTCTTTTGG TAAACCACAT	180
	TGGTACCATT TCCANGCTTG GACCCNACGG CAATTACCTG AACGGTCCCG GAA	233
10	(2) INFORMATION FOR SEQ ID NO: 3126:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 413 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	٠.
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3126:	
	AATAGATTCC CGGGATTCAA AAGCATGGAT GTTGTACCTT GTTGThCTCC ATTGGCAATG	60
	TACTACCTGA TGTCAAGATG AATTATCCAT CACTTTGTTG ACGTGCTTTA TTTTACAGCA	120
.25	TCAATTTGAT CCAATCGAAA TACCAGATAA CTTAGACTGT GTCCCAGTAA AATAACGATC	180.
	AATCACATCA TGAGACAAGC CAATCGCTTC AAATATTTGT GCCCCTTGAT AACTTTGCAC	240
	TGTCGAAATT CCCATCTTAG CCATTACTTT AATGACACCT TCTGACAATA CATCCGTATA	300
30	TGTCLTAACA TTATCGACAA CGGTGCCTTG TAACCCTTCT GTCAATGTCA GTTGTTCAAC	360
	TGTACGTTGC GCTAGGTATG GCACAATTGA TTCGCGCCAT ATGCGAGTAA ACA	413
35	(2) INFORMATION FOR SEQ ID NO: 3127:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	1
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3127:	
45	GTCGTAAATA CTGAACAAAA ATCACGGCAT ACTGTGCAAA TTTnTGAAGA AGCTCAAAAA	60
	CTATTACAAG CACATCATGC GATTGTAGAA GGATATATCG AATCAGCTTT AGAGCGTGCG	120
50	TANATCATCT TCTACATACA TAGGTAATTT TATGGCGATT CCTCATGGAG CATCCTGTAA	180
	AAAGTTTTAC AATCACATGT GCTTATTTT	209
	(2) INFORMATION FOR SEQ ID NO: 3128:	

5	(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3128:	
10	TAAATTAATG GAGTTTGGTA CACGTCGTCG CAAGAAATTG ATGCAGTGGG GCGCTAGAGC	60
	TGCTTACATC GGGGGCTTTG ATTCTACAAG TAATGTTAGG GCGGGGAAAT TATTTGGTAT	120
	ACCTGTGTCT GGTACACATG CACATGCATT TGTCCAAACT TATGGAGACC AATATGTTTG	180
15	CCTTCNAAAA ATATGCTGAA AGNC	204
	(2) INFORMATION FOR SEQ ID NO: 3129:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3129:	
	GAAATACCAT TAATATAATA GTCGGTAAAT TAAGAAACGT GGTGCGCGAT TCACAACAGA	60
30	AATCTTAACT TATCGAAGTA TCCTGTTTTC TCTGCAACAC CAATACCAAT CATCACTGCT	120
	AGTACTAAGC CTAATGCGGG AACTCTGAGA AATTTTTAAT CGTATTCTTC TTATCATCGT	180
	AAATCCATCT GGCTATTATA TTTTAATATA ANGGTTTGAG CTACCGGATG CTAACGNAC	239
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 3130:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3130:	
	ATCACAATAA ACATTTTAAA ATTCTTGTTA TCATAATCAT TAAAAGGTAT TAACCTTAAT	60
	AATATATTCT CTMGTCTCAA CCTTAATCGT ATACTTCAGA CGTCTGTTTG TAGACAATAA	120
50	AGTCATTCAC GTCTTCATAT GTCATCANAT GTTTATCATG ATATGATGAT ATATAATCGG	180
	TATATACTGT AGATATTACA CATAAGAGAG GATATAATAT GAAAAGGTCA TTAAGATGTG	240
	CTGAGAGCTG TGTATCAGT	259
ÉE	\cdot .	

	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 227 base pairs (B) TYPE: nucleic acid	*	
_	(C) STRANDEDNESS: double	•	
5	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3131:		
10	(XI) SEQUENCE DESCRIPTION: SEQ ID NO. 3131.		
	TGTGCCTGCC ATTTTGCAAT ATCTTCATCT TCACGTGGTA ATGCACAAAA ATC	TTTACCA	60
	TGTGCATTCA CAACTTCAAA AATATGTTGA CATGTGATGT TACTTGATCA TCA	CGCGTTG	120
15	CCATGGTATG CAAGTGCTGC GATAAATCTG CGGCACCTTC GACTATCATG CTA	ACCTTCG	180
	CTTGTnnATA TCGCAATGGC ATACCCCTTC AACATCTTCT ATCATGG		227
	(2) INFORMATION FOR SEQ ID NO: 3132:	*	1.
20	(i) SEQUENCE CHARACTERISTICS:	*	
	(A) LENGTH: 203 base pairs		
	(B) TYPE: nucleic acid	•	
	(C) STRANDEDNESS: double	35 4 1	
	(D) TOPOLOGY: linear		
25			
		et j	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3132:	•	
	ATCGCAGTGA TGTNATCATC TGCTGCTGTA GCNTAGCAGG TTCAATTTCA TT	TATCGGAT	60
30	TAATGGGTCC GCATATTGCC AAACGTATCG TTGGACCACG TCACCAGTTG TA	-	120
	TTGCCATTTT AGTAGGGGCA TGTATACTTG TAATAGCTGA TACAATTGGC CA	AAATTGTA	180
35	TTACAACCAG GTGGGGTTCC AGC		203
	(2) INFORMATION FOR SEQ ID NO: 3133:		
	(i) SEQUENCE CHARACTERISTICS:		
•	(A) LENGTH: 201 base pairs		
40	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
			• *
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3133:	* * .	· "
	AGCATTTAGT TTAGCGGCAG TAGCTGCAGA TGCACCGGTA GCTGGCACAG AT		60
50	TCANTTGACG AATGTCACAG TTGGTATTGA CTCTGGTACG ACTGTGTATC CG		120
50	AGGTTATGTC AAACTGAATT ATGGTTTTCn AGTGCTAATT CTGCTGTTAA GG	TGACACAT	180
	TCAAAATACT GTACCTAAGG A		201

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3134: CATTTGTAAC TGTTATTGTT TATAACTTCT GTGTGAAGCG CAATATTACA ATTAAAATGC	_
		6
	CGAAAGAGGT ACCGNCGAAT ATTTCACAAG TATTTAGGAC TTAATTCCAT TTTCAGCGGT	12
15	AATCATCATT CTTTATGCAT TAGGATTTNG TCAATCGCAA CCAGCTTTAA ATCAAAATGT	18
	AGCGGAGGTA TTTTAAAATT ATTCGGT	20
	(2) INFORMATION FOR SEQ ID NO: 3135:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3135:	
	AACACCTTTA GGTCGTGCAG GTCAACCTGT TGAGTTATGT GGTACTTATG TGCTATTAGC	60
30	GTCAGAAGGA ATCAAGTTAT ACAACCGGAC AAGTDTTCGG TGTTAGCGGT GGAGTGCAAD	120
	TAGGTTAGGT TTGTATGAGC TTTTAATTGA GCACCATAAT GTTAATTTAG TTACTTCAAT	180
	CCATTAAATT AAATGAATTG GTG	203
35	(2) INFORMATION FOR SEQ ID NO: 3136:	203
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3136:	
	CACATCCAAT GCANTCTACT AAATCAGACA CACCACAATC TCCAACCATA ANACAAGCAC	60
	AAACAGATAT GACTCCTAAA TATGAGGTTT AAGAGCGTAT TATACAAAAC CGAGTTTTGA	120
50	ATTTGAAAGC AGTTTGGATT TATGCTCAAA CCATGGACGA CGGTTAGGTT TATGATGTTA	180
	TTCCAATAGG TTCACTATAA ATAGCTTAGT T	211

	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 			ş
5	(D) TOPOLOGY: linear		* - *	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3137:		
10	ATTGGGAAAT GTTCCCCCAC CACCTACAAT TTGTGAATAC	AAACAATACG	TATTGCAATG	60
	GACTITACCT GGGCTTACCA AGTGAATGTA TACGTCACGT	ATGATACGAT	TGTAGTTGnA	120
15	AAATAATGCG AACAGAAAAT CGTTATAAGT ACAAATAATA			
*	TTTAGATTAA CAAATCTCCA ACCGATACAA TGAGTGCTTG	CAACATACCA	AGCATTATAA	7×1
	AGAATCCTGC CTTACCTAAG			260
20	(2) INFORMATION FOR SEQ ID NO: 3138:			
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 			
25	(D) TOPOLOGY: linear			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3138: :	· ·	
30	CATAAGCAAT TAATGACTTC GTTAATTGCG AAAGTGTATC		TCATTCGCTT	60
	TTGCATCTTC AAGCTTTCTC ACATCTGATT TGACAGCATT	CACTTTCACTA	TTATCTTCAA	120
35	GCGATAATTT CTTAACTGCA CTTACCACTT GCTCAATTGC	TTCTGCnTAT	TGTCATTCGA	
	TATCGGAGTA GTAGGAAGTG CNGAATTCGG CA			212
	(2) INFORMATION FOR SEQ ID NO: 3139:			•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ş.		
45		· · · · · · · · · · · · · · · · · · ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:			
	TATTGGTTTT TATGCGAATA TGGATAATAA AAGGTCTCAC	GACATCATTG	ATAAATCGCT	60
50	TGANATGTTG CGACGCTTAG ATCACAGGGG CGGGGTCGGC	C GCAGATGGCA	TCACTGGTGA	120
	TGGCGCAGGT ATTATGACTG AAATACCTTT TGCATTTTTC	CAAACAACATG	TAACGGAGGA	180

	GCACCIGITA GAAAAGAAGG GAAATTACCT CGTGAAGTCA TTCGTTATGA GTATGACCTA	300
	GAATATGGTA CAAATGTTTT AACAATGGCA CAAAGATGCA ATTGAAACCA GGTnCAACGT	360
5	GTGTTAnTAC AGG	373
	(2) INFORMATION FOR SEQ ID NO: 3140:	
1 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3140:	
	AGCCTTATAA TAAAGTGCCT TTCATAGCAA TAAGTTGTGT CCATTGACCT ATTACATTTT	60
20	TCGTTTTGTA CATTAAATAT AAGAAATACG GTGCACCAAT AATTGCTACG ACAATACCTG	120
	CTGGAACCCC CACCTGGTTG TAATACCATT TTGGCCATTT GTATCAGCTA TAACCAAGTA	180
	ACCNTGCCCC AACTAAAATG GCATTGGGTA AAACCACNTG	220
25	(2) INFORMATION FOR SEQ ID NO: 3141:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3141:	
	GAGGAGCAGC ACAACCAAAT ACACAACCAG CTGGACAAGG TGATCAAGCT GATCCGAATA	60
	ACGCTGCACA ACACAACCTG GAAATCAAGC AACACCGGCA AACCAAGCAG GTCAAGGnAA	120
40	TAACCAAGCA ACACCTAATA ATAATGCAAC ACCGGCAAAT CAAACACAGC CAGCGAT	177
	(2) INFORMATION FOR SEQ ID NO: 3142:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3142:	
•	CTTTTTTAGC ATTTGGTTTA ACAACCnGGT GTTGCAGTAT CCCCACTTAA GGTCTGTATA	60

10.	ATTTCATTTT TATGTTCCTC GATAACTTGT ATTGCTGCTT GTTTTCCTCC ATCTGTCAAT	180
	CCATCATTTG ATTGAGAGAA nCAG	204
5	(2) INFORMATION FOR SEQ ID NO: 3143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279-base-pairs-	· .
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
	(D) TOPOLOGY: linear	0 -
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3143:	
	GTGATGCCAT ATAAATTGGC AATAATGGCA CAAGTACTGT CAGTCCAGCA ATCGCTATAA	60
- 8	ACTGACTGAG CCATAAAATG CGAAAGTTAC TGCGCCATAT AGACTGATTA ATCATATGTC	120
20	ACCATTGGAT TTGGTACGGT AGTTAAACCT GAAGGCATAC TACCCTCCAC CCACTTATTC	180
	AACGTTGGAT nATAGGCAAT GGGTAATTAA AAATTTTGTT TTTGAAATGG GCCCACGGGC	240
	TTGTTTTAAT CAAAATTAAA AAATTGTGGT nCTTGGACC	279
25	(2) INFORMATION FOR SEQ ID NO: 3144:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 514 base pairs(B) TYPE: nucleic acid	•
<i>30</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3144:	
	TGACTTAATC AAAGCATTTG ATCAAAACAC CAGAATACCA TTATTCTTTA ATATGTTGTA	60
	CAGTAAACTC THTATTATTT GTTGCTGTTG GATCCATTGT TCGTCTTTCA ACAAAAACHT	120
40	GACCCAGAAT GAAGTCCGAT AGAGTCAACA AAGCLATAGT ATTTGTAACC ATCTTTTAGT	180
	TGATAAATGC CACGCGCATC TGTTATTGCG TCATTTTTAG GTACAAATTG AATTTKGAGA	240
	TTTCTCaCaT TATCAGGTAC TTTAAATAAA CGCAAAGTTG GACCGCCTTC AACAGTCTTT	300
45	TCAGCAATCG TATCATTAGT ATCAGCATTT TTGATAATAA CATTTGTTGC GCCTTGACCG	360
	TITITAGTAG TCATTGTATT AAATCAAGGT TAATTCAGAA TTCGGATTTA CTGTTAATGC	420
50	TTTCTCGATA CCATTAAAAT CGCCATGGTC ATTCGTATCA GTTCCAGTAT ACGGCCTAAT	480
<i>50</i>	GCAATACATT TGCCTGTGCn TGATAGTnCT TATT	514
	(2) INFORMATION FOR SEQ ID NO: 3145:	, g •

5	(A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3145:	
10	ATTCAGACTT TGCATGTGGA ATGGCCACGT TCATGCCAAT AGCTGTCGTA CTCCCATTTC	60
	ACGITCTAGI ATTGCATTIT TIAAATGCGA TGTGTGCTCT ACATAACGGC AAATTTTAAG	120
	TTTTATGAAT CAACATATCC AATGGCTTCG GTTTCGAGAC ATGTCCGTGG ATTCAGTAAT	180
15	TAACCATAGT TIGGTIGGAT CCAAAACCAT GAGNAGGGTT TAATGGAGGA TGTNGAATGG	240
	TTCnCCGGTG GTTAATCCTA CATGGTCCAC CCTCCTGGTA ACCATGGTGG TGGTAATAAC	300
	cc	302
20	(2) INFORMATION FOR SEQ ID NO: 3146:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3146:	
	CAGGAATAGG ATCATTTGCA TCCATAGCTT CACTTATTTT TTCAGAAGCT AGCGTACAAT	60
	CATTTAAATC TACGCCACCT TCTTTATCAA TAGAGATTCT AAGAAAATGA TCTCTACCCT	120
35	CTTTGACCAT ATTCAACGTC TACAAGTTCC AAAATTCAAG GTCTTCCCAT AATTGGGTTT	180
	AACCAATCCA CTTTCTACCT GGTTTCCGGT AAATTTTTAC CTCCATACCA GGGnCCTCCC	240
	CCTTTTTGG GCCAAAATAG GAAAAANGAG GCGGGGGAAA TCCTCCCCCC AATTCCnTTC	300
40	CTGGCCCTGG AGGTTTCCAC CTAAATTTTT TT	332
	(2) INFORMATION FOR SEQ ID NO: 3147:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
50		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3147:	
	GAGAGTGGTT AACAAGCAAA TAGAAATAAT TAAAAATGCA GATGCAGATG CATCGGCGAA	60
55		

,	CHCCAACAAA TGCAGAAGTT GCTGAATTCC AAATGTAACG ATACCTGCCC	ATGAGCGATG	180
	TGCTCAGAAT GATCAGAGCT AATG		204
5	(2) INFORMATION FOR SEQ ID NO: 3148:	r	1
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
			• ()
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3148:		:
15	CAACCGGGAC AGGTGGGGTT ATTGGACGTT ATTTTTGGCC TTTGGATTTT	AAGATATTGG	60
	TCGAAAAGAG ATTACATAAA ATTGTGGCCA AATGCGGATT GCATATTATT	GTAACGCCGn	120
20	CTATTGCATT GTTGATTGTT AGGnCTATTA ACTATCTGGA TCTGTATGCC	ATTAGCCAGG	180
	TTTTGTTTCA GACAGTTTAG TTTCAGTAGT TAACGGA		217
	(2) INFORMATION FOR SEQ ID NO: 3149:		
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3149:		-
35	CTATTATTAT ATTCCGCGGT GTACGTATAT GTGCTACGTT ATCTTCGTTA	ATTGTACCGA	60
	TTATGGCTAT CATTTACATT GGTATGGTTT TAGTAATATT GCTATTTAAT	TTAGATCAAA	120
	TTGTTCCTAT GATAGGTCAC GATTATTAAn AGTGCATTTG GTCATCGAAC	AAGT	174
40	(2) INFORMATION FOR SEQ ID NO: 3150:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 181 base pairs (B) TYPE: nucleic acid		
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	<u>.</u> .	· · ·
	(with appropriate appropriate and the second	(A)	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3150:		
	GGGACCGAAT TGACTTCAGC ATTACCAGCA AATTGATTAA TnTTGTGGGC	TGGTATTGGC	60
	TCTGGCGGTA CCATTTACAG GTACCGCACG TTATTAAAGC AACATCACGG	GCAATGTTAT	120

	A	181
	(2) INFORMATION FOR SEQ ID NO: 3151:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
, -		. ,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3151:	
15	GTTTTAATTG AGCGACATAC TCTTCTGTTA GCTCTGCTAC TTTTTAAAAT AGAGCGATTG	60
	ACATCAAACA TAACTGCTAA ACGCTCAACG TCTGCCTTCG TAATGGCTTT TGTAGAAATT	120
	CTAACTAAAT AATTTCGAAT GCTATCATTG GTTGTnTCAA CAGCTTGATG CT	172
20	(2) INFORMATION FOR SEQ ID NO: 3152:	. *
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3152:	
30	ATGGACGTTG AGACATTTAT AAGCGATATA GATTTCGCAT GTTGCATTTA TTAAACCTAA	60
	TAATGGTAAA CGACAAGTGT GACTGTTACT GGACTTTAAT GAAGGTAGTA ATCAGAATGG	120
35	AAATCAACCA AAAGTAGGTA TTTGAATnTT GGGAATAATG AGACATAGCG AGAGTGTATA	180
	TGCAATACGA CAGTACTNTA AATTAAGAG	209
	(2) INFORMATION FOR SEQ ID NO: 3153:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3153:	
	TTCTCACAAA GCGCTCAGTT GAAGTAAATC CACCTGGACA ATCCAAATGT ACCTGCTTCA	60
50	TTGCCTAAAG GTTCAATCGT TANACCTTCC AATAAATTTG CTGTTGCTGG ATAAGGAGAA	120
	ATTATTGGTA TATTGTCTTA AATTACTATG ATGCCAATTT AAGGTCTGGA TGAT	174

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3154:	magni que rommaronmara máj que estadorando er un se un comercio.	
10	GGATCACATC GTTCATTTAC ACAATCTATT AATATTCAAT GGCACAATAT	AGTGTTTATG	60
•	GCATTACGGA TATGATTTAG TAGChCACCA TTATTAACCG ATCTCTATCT	GTTAAAAGGA	120
15	ACTTAAGAGC AATGTTTGCG CATCATCATT TTATGTTGCG TCTTTGCACG	AGTTTTGCGA	180
	AACTITACAA TATTTGTTGC GGATGATTAT TTAACTITTG GAGAATGTTG	ATGGCACAGT	240
	CCACTATANC AATCAGTATC GCAATGG		267
20	(2) INFORMATION FOR SEQ ID NO: 3155:		
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 490 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. , .	
		•	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3155:		•
	AATTAAAAAT CAAGCAACTG CTGCAAAAAT GCAAGATCAA ACTGTTCCTC		60
•	TTCTCAAGTA GATAATAAAA CAACGAATGA TGCTAATAGC ATAGCAACAA		120
35	TAAAAATTCT CAAACATTAG ATTTACCACA ATCATCACCA CAAACGATTT		180
	AGGAACTAGT AAACCAAGTG TTAGAACGAG AGCTGTACGT GTTŁAGCTGT		240
•	GTAGTAAATG CTGCTGATGC TAAAGGTACA AATGTAAATG ATAAAGTTAC		
40	TTCAAGTTAG. AAAAGACTAC ATTTGACCCT AATCAAAGTG GTAACACATT.		
	AATTTTACAG TGACAGATAA GTGAAAYCAG GGGATTATTT TmCacGAGTT		420
	TACTGGTAAT GGAGACGTGG GATTATTCTA ATTCANATAA TACGATGCCA	ATTGCAGACA	480
45	TTAAAAGTAC	. 8	490
	(2) INFORMATION FOR SEQ ID NO: 3156:		
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	X:	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3156:	
	CCTTCAGTAC CTTGTAATAG TTANTTAAAT GTTCCGATCA TCGTGTAGTG TGATTCATCA	60
5	TACCGGCCTT TTCAATTGAA TACGATCTAA ACCGTTTCGT CAGGTGCTAG TAAGTTACCT	. 120
	TCGCCACCTA AATAAGAAGT TCACTCGTTA CGATTTTTTC AGATAGCATC ATTGGTGGAT	180
	TCGTAACTTG TGCAACAGCT GTTTAAGTAT TAATAGTGAT TCGGTCGTCT TCACATGCAT	240
10	TGGCGCACAA TCCnTGCACC GT	262
	(2) INFORMATION FOR SEQ ID NO: 3157:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3157:	
	ATGGTAAAAA TTGCACTATC TGCTCGGGAA ACGATTTTGC ATAACCTATT GTTAATTTTT	60
25	TACCTGTTGA TTTAGCTGTA TCTGnCCATT TTTTGAGCTT CTGCTGTCGT TTTAGCCATT	120
	GGGTTTTCAC ACATCACATG TTTACCAGCA TGCAACCCTG GCTACAGTAA	170
00	(2) INFORMATION FOR SEQ ID NO: 3158:	*
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3158:	
40	CCAGGCAGAG GAGCAGCACA CCAATACACA ACCAGCTGGA CAAGTGATCA GCTGATCCGA	60
	ATAACGTGCA CAAGACAACC TGGAATCAAG CAACACCGGC AACCAAGCAG GTCAAGGAAT	120
	ACCAAGCAAC ACTAATATAA TGCACACCGG CAAATCAACA CAGCAGCGAA TGTCCAGCAG	180
45	CAGCGAACCA GCAGCACTGT AGCAGCAACG ACAACTCAGn CCAATGTAGC ATATGGTGAG	240
	GCAGTTTATA GACATACATT GTGnCCTGCA TTCACAGTGG ATAGCAGGTC CACTGTACTG	300
50	TACAGTAAGT An	312
	(2) INFORMATION FOR SEQ ID NO: 3159:	

e i Maria da Pa

2467

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 171 base pairs

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3159:	
	AATCACATCA AAAACTTCAA TTGTTTACGT TGGCAACTAA CTTTATGTTA GAACGCACAC	60
10	AATATCTAAT GTTTAAAATC TATCGTCGCA AGATGCTTCC TGnTAATTAT CAGTGCCATT	120
	TTCGATTGGG TTATACAATC TAGTAATCGC ATGATAATTT AATGCTACAA G	171
	(2) INFORMATION FOR SEQ ID NO: 3160:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3160:	
	CTTGTTCATT TAATCCATAT AGTATACGAC GATGTACTGG TTTTAAACCG TCACGAACAT	60
25	CTGGCAATGC ACGAGCAACG ATAACACTCA TCGCATAATC TAAAAATGAT TCACGCATTT	120
	CACTGGTAAT ATTTCGTTCA TTAATCnTGA TTGAGGGAAT TCCGCCCATC CAGANGTCCC	180
30	CCCTCCAAAG TTCAGTTCCA CAGGGGCTAG A	211
	(2) INFORMATION FOR SEQ ID NO: 3161:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3161:	
	GCACAGGTAG CGGTAGTGGC GGTCGTATGA TGACTTTGGT AATCTAAAGC AAAATGTACG	60
	ATAATAATAA ACGTCGTTTC GTTTCTCTGA TGTAGCAGGG GCAGTGAAGA AACAAGATTA	120
45	TTGAATTGTT GATTTCTTGA AGATATAAAA ATTCAAGAAT GGGTCTAGGA TTCCTAAGGT	180
	GTCTTCTTTT GGGCTCAGTA CGTAAACATA TTGTAGAGCG TGCAGTGAGT GGCGCACCAT	240
	CTCTTTTGGG TCAGnTTTGG AGTTTTGTTT GTCGGCTGTC GGATTnTCGT ATGTAGGAAC	300
50	GGCTGTTCAC TTnCGTGGAT G	321
	(2) INFORMATION FOR SEC ID NO. 2162.	

5	(A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3162:	
	AACATTTGAG CAATATCAAG AAACATTAGA GTATATTTTA TCCCATCATG TAACTCGTAA	60
10	TACAGCAATT ATTGCTTTGG GTGGTGGTGC ACTGGTGATT TTGCTGGGTT TATTGCGGCG	120
	ACACTTITAC GAGGCGTGCA CTTTATACAA GTGCCANCG	159
15	(2) INFORMATION FOR SEQ ID NO: 3163:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3163:	
25	GTCAGTTATG GCAAGTGCAT CAACATTTTC AGACACAGAC AAGTCTTACG GCATCTTCTA	60
	TTTTTAAGCT TGAAATTTAA CAAATCATAA GCCGTATGAA TATTTAAATA TGCCACCATG	120
	ATTGAATGGC CCCTTTCTAT TAGTTANGTT TTGTGCG	157
30	(2) INFORMATION FOR SEQ ID NO: 3164:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3164:	
	TATAAAAATA TAACGCGGAC AAAAAAGTGA GTTATTACTG ACAAAGTATn TGAGATTGTA	60
	ACAGGATATA TGAAGCAATA TCAGTTGATC CAACTGTCAT AGGTATTTCA TCAGCAGGAG	120
45	TTGTTGATGA ACAAAAAGCG AAATTGTATA GCAGGCCAAC ATTCCGATTA TAAAGGTATA	180
	ATTTTAAGGA TTATTAAAAT CATGTCTCTT ATGTCA	216
	(2) INFORMATION FOR SEQ ID NO: 3165:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3165:	
5	AGAAACACTT CTATTGAATC GTCTTACTGC TGTTCTCTAT TTATAACACT TCGTA	TTGAA 60
	TGAATTCATT ATGCCTATTT GACACATTAT TGAAGTTTTC CTAATGCCTG GATCC	TTTAT 120
• ,	ACGTTACGGC-TTCGTGCTAT-GTTTTGGTAC-ATAAAGCTTT-GACATATCGA_DATTC	175
10	(2) INFORMATION FOR SEQ ID NO: 3166:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3166:	
	ACTGTTACAA CAAATTAAAA ATACAACAAG CGAGATATAG TTATTGTTGC TGGAn	TGTAC 60
	CAAGTAGTAT TCCAAGCGAT GCTATGGCAA ATTGCACAAA TTACAGCACA GACAG	GTGCT 120
25	AAATTAGTAG TCGACGCTGA AAAAGAATTG GGCTGAAAGT	160
	(2) INFORMATION FOR SEQ ID NO: 3167:	
30 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
*	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3167:	
	TGTGGGGGAA ACCTGCACAG CAAAAACTAA AGCTTATCGA TACATCTAAA CATTG	
40	TAAAATCAGT GCATCCTAGT CCACTGTCTG CATATAGAGG ATTCTTTGGA TCAAA	ACCGT 120
	ATTCCAAAGC GAATGCCTAT TTAGCGTCAG TAGGNA	156
45	(2) INFORMATION FOR SEQ ID NO: 3168: (i) SEQUENCE CHARACTERISTICS:	
50	-(A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•

2470

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3168:

	GIGGEGAGAA AIACEGEAAG CATAAAGATA TETTIGATEE AACITACEAA CAGATEAACG	120
	GAAAAGTACC AGGTAACCAG GAATCAAGAT CCAGACACAG GAAAAGTGAT CGAG	174
5	(2) INFORMATION FOR SEQ ID NO: 3169:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3169:	
15	TCAAACGGGG TCAATTTCAA ATGGAAAAAT TATACCGCAT CTTCTCCTGA TAACTACGTG	60
	ACCITATCIT CITTATATIT GCAGACCACG AACATTCAAA CIGCATGCIT GCTCGATTGG	120
20	CAATGTCATA TAACTAGTAA CATGATCATC NCATCAAATT TAGTATGTCA AATGTCCCAA	180
20	TCANTAATTT GATCGGTGTT GCTCAATTGA TTA	213
		213
25	(2) INFORMATION FOR SEQ ID NO: 3170: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	٠.
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3170:	
35	AAAGCACCTT TTCCTAATGA AAGTTGTGCT ACTGGTATCT GTGTTTGATT TACAAAATCT	60
	TCTAATTCTT GATGGAGGTG AAAACTGTTA ATTTCATGTC CAGTAATGAT GATAGGCTGC	120
	TTCGCTTGAT GCAGTTTAGT TGCTAATAAC TCTATATATG TTGATGCATC CGTATATTTA	180
40	GTTGCCGTCA CTTCAAATGG TGTCGGTATC TCAATTTCAG AGATTGCGAC ATCGATTGGT	240
	AAATGTAAAL GAACTGGGCG TCTTTCGGCG ATTGCTGTAT TAATTAAACG TGGTATTTCG	300
	GTTGTTGCAT TTTCAGGTGT GATATAACCT GTGCACGNTT ATATGTGCAA ACATTTTTCG	360
45	ATAGTCGTCA AATGTACCnn	380
	(2) INFORMATION FOR SEQ ID NO: 3171:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3171:	
_	TAGAAGGTAA GAAGGATCCT ATCGGTGCAA TGGGATATGA TGCGCCAATT GCAGTGTTGA	60
5	ACGAGCGACC AGAATCACTA TTTAATTACT TTAAACAGCT GTTTGCACAA GTTACGAATC	120
. *	CACCAATTGA TGCGTATCGT GAAAAAATCG TAACGWGTGA ACTTTCTTAT TTAGGTGGCG	180
10	AAGGTAACTT ACTAGCACCT GACGAAACGG TTTTAGATCG TATTCAATTG AAAAGGCCGG	240
	TATTGAATGA ATCACACTTA GCAGCGATTG ATCAGGAACA TTTTTAAATT AACTTATTTA	300
	TCAACGGTAT ATGAAGGGGG ATTTGGGAAG ATGCGTTAGA AGCATTAGGC CGAGAAGCAG	360
15	TGGAATGCTG TTAAGCAAGG GCGCTCCAAA TTCCTAGTGG T	401
	(2) INFORMATION FOR SEQ ID NO: 3172:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3172:	
	ACATAATITA AAATAATATT ACATTTGTAA TGGnCACCAA GTAACGTTTC GGTTGCTTGG	60
30	TGTTTTTTGG TATGAATTAC TTTCTGTTAC AAAACAATCT AAAGCGTTCT GTTATGTTTT	120
	ATTAAGATTT AATTACAAAC GGAAACTAAA TGTAATAGAA TAAACT	166
	(2) INFORMATION FOR SEQ ID NO: 3173:	1
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3173:	
45	ATAATGAGAN TGTTGTACGT TATGGTGGTG GAAGTGCTGA TGGTGATTCA GCAGTAAATC	60
	CGAAAGACCC AACTCCAGGG ACCGCCGGTT GACCCAGAAC CAAGTCCAGA CCCAGAACCA	120
	GAACCAACGA CCAGATACCA GAACCAAGTA CCAGACCCAG	160
50	(2) INFORMATION FOR SEQ ID NO: 3174:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3174:	
_	CTTTATATAA AGAAGGAATT ACTAAACATA CAGTTAGATT ACTTCATGCA ATCGAATTAG	60
5	AACGTTTGAA TTTAAGCCGT AGATTAGGTT TTGAATTATC AACAGCHAAA GAATCACGTA	120
	TTGAACGGGG GTTATTTAGA ACGTGATAAA GAAGGATG	158
10	(2) INFORMATION FOR SEQ ID NO: 3175:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(b) TOPOLOGI: Timear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3175:	
20	TATTTGAAGA TGGCTGTGTA CAAAAATCGG TGTTACGTGA TCATGATACT GTCAGAATTT	60
	ATAAACCATG GCTAACAGCA CATCAGCTTT CATTGCCCNA GTATGTCGTC AGAGAAGATA	120
25.	CACCTAATCG CTAATTAATG AGGTTTGGAA ACAT	154
25	(2) INFORMATION FOR SEQ ID NO: 3176:	0
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 472 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3176:	
	AGAAGGTATT TTAGCTCAAT CTCCAGGTCT AAAGGTTGTT ATTCCTTCAG CCCATACGnT	60
	GCGAAAGGTT TATTAATTTC TTCTATTAGA AGTAATGACC CAGTCGTATA CTTAGAGCAT	120
40	ATGAAATTGT ATCGTTCATT CCGTGAAGAA GTACCTGAAG AAGAATATAC AATTGACATT	180
	GGTAAGGCTA ATGTGAAAAA AGAAGGTAAT GACATTTCAA TCATCACATA CGGTGCAATG	240
	GTTCAAGAAT CAATGAAAGC TGCAGAAGAA CTTGAAAAAG ATGGTTATTC TGTTGAAGTA	300
45	ATTGACTTAC GTACTGTTCA ACCAATCGAT GTTGACACAA TTGTAGCTTC AGTTGAAAAA	360
	CTGGTCGTGC AGTTGTAGTC AAGAAGCACA CGTCAAGCTG GTGTTGGTGC ACAGTTGTAG	420
50	CTGAATTAGT GACGTGCATC CCTTCATTAG AAnnCCTATG GAAGAGTGCA CA	472
	(2) INFORMATION FOR SEQ ID NO: 3177:	

5	(A) LENGTH: 150 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	¥
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:	•
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3177:	
10	TGAAAGCTGG CGAATACAGT GATTGTCATG ATGCGGATCT AnTTGTCATC TGTGCTGGTG	60
	CTGCACAAAA ACCTGAGAGA AACACGTTTA GATTTAGTAT CTAAAAACTT GAAAATATTC	120-
	AAATCAATTG TTGGTGAAGT AATGGCATCA	150
15	(2) INFORMATION FOR SEQ ID NO: 3178:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torobodi. Ilitedi	
		* • •
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3178:	
	TTACTCTATC TTGATTTGAC GAAATACTAT TANGCTAATA TCGATATTTT AAAAACGAGA	60
	TGATGTTCCA AAGCAAGCCA TTTCGATGGA CTGCTAATAT TCTTCAGCCA AACGTATCAT	120
30	TTTACTCGCA TTTGGTGAAA AGAAACGGCT GCTATTACAC ATTTAT	166
•	(2) INFORMATION FOR SEQ ID NO: 3179:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3179:	
	CTTCGACTCT AGAGGATCCC CGCGCTCAAA TTCTAGTGTT AGATGATAGT GGATTAGTTG	60
45	ATAGCAATGG CTTTGCAATG CCGATGTTAC TCGCAATAAG TCATGTGCAT CAATTACTTA	120
	TTAAAGCAGA-TTTACGTATG TCTACAAGTT TANTTCGCTA AATCTGGTGA	170-
	(2) INFORMATION FOR SEQ ID NO: 3180:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3180:	
	AGCTAAGGTT GCCntgggcg Ttgccccant tggttagtcc aggtggtcgc ggtggccatc	60
5	GGTGTATTCG CCAGGTCCTT CAGCCAGGGT TTTTACTATT ATATCCAGTT GTAGCATTCA	120
	TGATTGGGGC GATTCGAGAT AGATTCATCA ATGAAATTAA TTTCTGGATT TTATTCGTTG	180
	GTATTTATTT GGGTATACAT AAGTATGGTA CATGATAGGC AGATATACAA CATTACAACA	240
10	TTCATTCTAC TATGCTGGAA ATAACATGAC AGTGATGACA CTACTATCCC CGTCGCA	297
	(2) INFORMATION FOR SEQ ID NO: 3181:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3181:	
	CACTAGGTAC CCCAAAACGC CAGAGGAACT TGGTTAAATC GCACTTACTT GGTGGCTCCA	60
25	ATCAACTGGT ACTTCATAAC GTTTGGCATC TTCGCCACTT CACCACTATT ACTCTTTCCA	120
	CCTAATTGGT TCATGGCTTG TGCTAACGTT TCATGTGCTT CCGCTGAAAT CGATCCATAA	180
	CTCATCGCCC CTGTATTAAA GCGTTTGACA ATGTCACTTA CCGGTTCAAC TTGGTCGATG	240
30	TCAATCGGTG TACATGCTTT AAATTCAAGT AAATGTCTAA TGTGATCTGT TCTATTTTTG	300
	TTnCACCGnT TnCAGAGTAT GCTTTAAATT GCGCCATAGT CCATTTTCT	349
35	(2) INFORMATION FOR SEQ ID NO: 3182:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3182:	
15	TACCAACACG TACACCTTCT AAAATAACTG CATTTGCACC GTnTTAATAC ATCATCCTCG	60
	TTTATAACCG GTGTAAGCAC TAGGGGGTTC AATCACACCT GCTAATACTG CGCCAGCCCT	120
	ACATGTACAT TTTTACCAGT TGTAGCACG	149
60	(2) INFORMATION FOR SEQ ID NO: 3183:	

55

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

		• • •
. , 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3183:	
	GCGGTGCCGG TGTTGCAATT GGCGCAGTGG TGTTGGTAGC ATGTGGTCTT TCAATCAATG	60
10	TTCAATACAC CAGGAGATCC GGAAAAGATG CGTATGAATT TTATGGTAAG TGCACCAGGC	120
÷	ATTACCACAC CACGCAANAA CATGCAT	147
	(2) INFORMATION FOR SEQ ID NO: 3184:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3184:	
25	CAGCGATATG TTGGCGTTGA AAATCTGCAA TTTGTTCATA ATTCTCTGTT AAAGAACGAC	60
25	TTAAATTGAT AAAAATGGAT ACGATCTCTT GGTAAACAGT GACATTTTCT CAATCGGCGT	120
	ATGATGTTTG TGGCACCGAC CATCGAGAAC ATGAAAATCT CATGTCCCAC GCTAGTCGnC	180
30	(2) INFORMATION FOR SEQ ID NO: 3185:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	a -
		* 1.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3185:	
40	GGTAAATACG TATTAATCAG ATTAAGATCT GGTGAAGTTC GTATGATCTT ATCTACTTGG	60
	CCGTGCTACA ATCGGGnCAA GTTGGTAACC TACAACACGG GTTAGTTAAC GTTGGTAAAG	120
	CCGGCACGTT CAAGATGGGA AAGGTATCCG	150
45	(2) INFORMATION FOR SEQ ID NO: 3186;	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GAATTThAGG TGAATCAGAA GATTAACGCT GTTGCGTCCT AAGCTAACAG ATACTGGTTC	60
	GTCAGTTGTC GTTGAAAAAG CGAATGAACA ATTTAATAAA ACCGTAACTC GAGCATTATT	120
5	AGAGGAAGCT AACCAAAGCA GGTTTA	146
	(2) INFORMATION FOR SEQ ID NO: 3187:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3187:	•
	AAATTGGCGA GTATGTTGTT ATTGGGTCAG TACTCTGAAA TTAACAATAG nTACGATTGA	60
20	AAATGGTGTC ATGTATTCAA CAGTCTGTTG TTAATGTATG CTAGTCGTGG TGCGAATACT	120
	AAGGTCGGAC CGTTTGCGCA ATTGAGACCA GGCGCGCAAT TAGGG	165
	(2) INFORMATION FOR SEQ ID NO: 3188:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(b) Torobodi. Illical	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3188:	
	CAGTITAGIG GAGACGAATC TAAACGAAAC AAAGCGATIG GACGIGCATC AGTIGTACCA	60
35	ACATTCTTTG GTGTAAACGn AACCAATTTT ATTTGGTGCC ACCACTAGTT ATTGGAATCC	120
	TGTGTTCTTT ATTCCATTTG TATTAGCACC AATTGTTAAC GTATGG	166
	(2) INFORMATION FOR SEQ ID NO: 3189:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3189:	
50	AACCCTTTAT CTAATCCATT TTCAGTTAAG CGATGACCGC CTGCTAAAAT TTGTGCATCT	60
	GATTCTTTTG CTGCATCAAT ATATGATTGA ATTTTATCTA ATTGATCCTT ACCAGTTTGA	120

(2) INFORMATION FOR SEQ ID NO: 3190:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3190:	
	TCCCCCAAAG GGTTTAAGGG GTTAACCCGG GTTTGGGAAA AATTTTTTAA CCCCCCTTAA	6
15	Anticcegg Aaaaaggaaa ecegggtitt taaaaaaaac eeggggtee caaaaatti	120
	TTGGGAAAGG GAAAGGAAAA AAGGGTTAAA AAATTTTTGG GAAAAACCCG GGCCCAnAAA	180
	AAAGGGTTTT TTTCCCCTTA AAAAAAATTT AA	21:
20	(2) INFORMATION FOR SEQ ID NO: 3191:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3191:	
	CTTCACTGAC TTTAGCAATT TCATCACCTT TTGCCCCTAC AACGATAGCT AATGATTTAT	60
	ATTGTAAACT CAMATGACCT TGTTGAATAC CTTCTGACAC AAGCGCGCGA CATGCTGCAA	120
35	AGTTTTGCGC TAAACCAACG GCAGCAAC	148
	(2) INFORMATION FOR SEQ ID NO: 3192:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 212 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3192:	
•	CTGCTAATCC GAAATCTTTT TGGAGTTTTA TTAAACCAGC TGCTTCTAAT AGTTTAAGTG	60
	CACGTGCTTG GTTTGACACA TCATTTGGAA TGACAACTTT AGCnCCATCT TTAACCTTTT	··120
50	TGACATCTTT AATTTTATCT GCAGAAATAA ATCCATCACG GATGGCTCTT AAATATATGT	180
	TACGTGATAA TTTCTCGADA AATGGCTTCC CT	212

(i) SEQUENCE CHARACTERISTICS:

55

(A) LENGTH: 141 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3193:	
10	TCGTGCAGTG GTCTTCTGTT AATTGGTGAA TTTGGATACT GGTTATATTC AGCTGCACCG	60
	CAAGCAACTT CTATTGATGG CCNAACTGCC TTTTTACCTC AAGCAATGGG TATGGTAGTT	120
15	GTTGCAGTCA TTTATGGCTT T	14
	(2) INFORMATION FOR SEQ ID NO: 3194:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	A TO	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3194:	61
	AATAACGTTC TGAAAAACGA AGATGTTTTA AATGCCTATA TCCGCGGTCG TGGCGGAATG	
30	GCAGACGCGC TAGGTTGAGG GCCTAGTGGG AGAAATCCCG TGGAGGTTCA AGTCCTCTCG	12
	GCCGCATCAA AATTCTTAAT TTAAATAAGC GGGTGTAGTT TAATGGCAAA ACCTCAGCCT	18
	TCCAAGCTGA TGTTGTGGGT TCGATTCCCA TCACCCGCTC CATAGATAAT TTTAATGAAC	24
35	ATTGAAAACT GAATGACAAT ATGTCAACGT TAATTCCAAA AACGTAACTA TAAGTTACAA	30
	ACATTATTTA GTATTTATGA GCTAATCAAA CATCATAATT TTTATGGAGA GTTTGATCCT	36
	GGCTCAGGAT GAACGCTGGC GGCGTGCCTA ATACATGCAA GTCGAGCGAA CGGACGAGAA	42
40	GCTTGCTTCT CTGaTGTTAG CGGCGGACGG GTGAGTAACA CGTGGATAAC CTACCTATAA	48
	GACTGGGATA ACTTCGGGAA ACCGGAGCTA ATACCGGATA ATATTTTGAA CCGCATGGTT	54
	CAAAAGTGAA AGACGGTCTT GCTGTCACTT ATAGATGGAT CCGCGCTGCA TTAGCTAGTT	60
45	GGTAAGGTAA CGGCTTACCA AGGCAACGAT GCATAGCCGA CCTGAGAGGG TGATCGGCCA	66
	CACTGGAACT GAGACACGGT CCAGACTCCT ACGGGAGGCA GCAGTAGGGA ATCTTCCGCA	72
50	ATGGGCGAAA GCCTGACGGA GCAACGCCGC GTGAGTGATG AAGGTCTTCG GATCGTAAAA	78
	CTCTGTTATT AGGGAAGAAC ATATGTGTAA GTAACTGTGC ACATCTTGAC GGTACCTAAT	84
	CAGAAAGCCA CGGCTAAtAC GTGCCAGCAG CCGCGGTAAT ACGTAGGTGG CAAGCGTTAT	90

	CGGCTCAACC GTGGAGGGTC ATTGGAAACT GGAAAACTTG AGTGCAGAAG AGGAAAGTGG	1020
	AATTCCATGT GTAGCGGTGA AATGCGCAGA GATATGGAGG AACACCAGTG GCGAAGGCGA	1080
5	CTTTCTGGTC TGTAACTGAC GCTGATGTGC GAAAGCGTGG GGATCAAACA GGATTAGATA	1140
	CCCTGGTAGT CCACGCCGTA AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG	1200
and a second residue of the	TGCTgGCALA ACGCATTAAG CACTCCGCCT GGGGAGTACG ACCGCAAGGT TGAAACTCAA	1260
10	AGGAATTGAC GGGGACCCGC ACAAGCGGTG	1290
٠.	(2) INFORMATION FOR SEQ ID NO: 3195:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3195:	
	TGGTACAGAG TTATCGCTGG TGGTCCTGTT CGTGCCGTAC TTGAATTATC AGGTATCACT	. 60
25	GATATCTTAA GTAAATCATT AGGATCAAAC ACACCAATCA ACATGGTTCG TGCTAACAAT	120
	CGATGGTTTA CnAAACCTTA	140
30	(2) INFORMATION FOR SEQ ID NO: 3196:	
Ÿ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3196:	
40	CTATTGGATC AGGAGGCAAC TACGCTTAAG CGCAGACTGC CCATTGAAAC GCCATGCATC	60
	GCATTTGTCG CCTGAAGAAA TGGCATATGA GAGCTTGAAA GTAGCGGCTG ATATTTGTGT	120
45	CTTTACCAAC GNTAATATTG TTGTC	145
	(2) INFORMATION FOR SEQ ID NO: 3197:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷

	IGICGAGITG GAATIGGACG ATTGAATATC COATCICCAT CACTATCAAA GIATGGGAAT	60
	TGAATTGTTT CTAATTCGTA TCCACCTTCT GTCATTGATA ATGTAGGGTT AATTTTAGAA	120
5	CCATCTKCTG TTTCTAGTTT TAAGTTCCAC TTCTTACCTT CTTCCCAACG TTGACCCATT	180
	GTGCCATTAG GTACTACTAA ACTATCGCTG ATTGCATCAT GAATAACTGG CTTCCATTCn	240
10	CCTTGCTCTG TTGTTTGACC TAAGTCACTC GCGCTnAAAA ATCGACCCGC TTTATATCCA	300
,,,	ThTTCAGCTG	310
	(2) INFORMATION FOR SEQ ID NO: 3198:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3198:	
	TGCTTTATTA ATGCATTGGC TAATAATCCA CTTGTACCAC CACCGGCACA AAGTACTAAG	60
25	AGGTTTGTTC TGTGATATTT GAAGCTTTAG TGCATCGTCT GATACACCAC TTGCCGCTAA	120
	AATTGAATCA GCTTTTnTCG	140
30	(2) INFORMATION FOR SEQ ID NO: 3199:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
٠	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3199:	
40	TGGTGATTTC AAATCATGAG ACTGGGACAA AATGATGTTT TCATAAAAAT TATTTCGTTG	60
	TTCCACTCTC ATGATTTTTT TGATGAACAT AATTACATGA TTGATTGCAT CATTTGTTAA	120
45	AACCAGTGAT TGCAACCTGC CATTCACANG GAAAATTACC TAATAAGTGG CGTATTTACC	180
	AGTC	184
	(2) INFORMATION FOR SEQ ID NO: 3200:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 3200:		
	TTGAGAAGCG TTTAGGAAGT AACGTTTAAC GACG	ACAGTC GTTCAATGCG	ATCAAAATGT	60
 5	TTTAACACAT GAATCGCTCT CGTACTATTC GTGT	GTGACA CATGTTCTTC	CAGCATTTGC	120
	TTAATGAATG CTTTTTCTTC TTGGTnTTTA ATCT	TTGTAA ACG		163
man High Youngs's and a	(2) INFORMATION FOR SEQ ID NO: 3201:			
10	(i) SEQUENCE CHARACTERISTICS:			
	(A) LENGTH: 149 base pairs (B) TYPE: nucleic acid			
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		÷ ()	. j
15				
	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO: 3201:	* * * * * * * * * * * * * * * * * * * *	
20	GTTATGTTTG AGACTATAAT GAATAAATAT TTAG	SAAATAT GACTCCGATI	GTTCGATGCT	60
	TAATTCAGTT AGAAGCATCA TAAGAATGCA TGAT		•	120
	TGTATTGACT GGATGTCTTT GGATAGAGT			149
25 .	(2) INFORMATION FOR SEQ ID NO: 3202:		7	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	(b) 10102001. 111001			
	(xi) SEQUENCE DESCRIPTION: SEQ 1	ID NO. 3202.		
35	CAAGTGACTG AGATTACTGA AGTAAACCCG TTAG		TCCGAACTGT	60
	AAAACGAGTG AATTTTTCAA TGATGGTTCA GTAC	·		120
40	TGTGAANTTG TGGAGGCCAC TATTAAAGAA GACA		•	180
,	AAAGTCCGAT TC			192
	(2) INFORMATION FOR SEQ ID NO: 3203:	*		*
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	* .	.	ž .
50	(D) TOPOLOGY: linear			
				•

2482

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3203:

	CGCCATCTAA CGTTTTTTGT ATTCGTTGTT GCTGAGCTAG TTGTAAGTGC ChCATTAAGC	120
	ATCTTATAGC GTGATAGCCA TGCGCCAACG TACAAATCTG CTCCGTATTG TACGCACCAC	180
5	TAAGCAGTAC ACACCAGTAA CATTTGATAG CGTTATAGCG CAATATACAG TACA	234
	(2) INFORMATION FOR SEQ ID NO: 3204:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3204:	
	AACGCCATAA GCTACATGTA TGCTTCTTGC ATGGTTATCA TCCTCTCTTA ATGACTATCT	60
20	TTTAATTACG NAATGGCTTA CCAGTTTTTA ACATATGTGC AATTCTTTCA TATGATTTTT	120
	AGATTTAGTA GCATAAGCAA TTTCTCCACG TTGATGTACG TGATGTAATG ATTCTGGG	178
	(2) INFORMATION FOR SEQ ID NO: 3205:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3205:	
35	TATTAATCAC GTTGTTGTGC GTTCGTGTTT TCGCAGTATT GATTTGTTGT TGCGCATTAT	60
	GCATTGCATT ATTGTACTGC GTAATTGTAC CTGGCTTTTT ACCTTCAGTG CTTACTGGnT	120
	CATCTAAATG ATTTTTAGCT GTGATTA	147
40 .	(2) INFORMATION FOR SEQ ID NO: 3206:	(i)
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	e.
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3206:	
	CAGCTGTACT AGTTGAGCGT ATTATCCAAA ACATTTTACG TGATGGCATT GATGTCGATC	60
	GACTITCAGT CGTAACGTTT ACAAACTTAA GCGCACGTCA NATGAAGCAT CGTGTAGACC	120
è-	•	

	(2) INFORMATION FOR SEQ ID NO: 3207:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	en an en
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3207:	
	TAGGGACTTT GAAGCGGAGA GTCTAATGCA TATGGGCAGC ATTATGATCA GCAACTGCTG	60
15	AGAAAAATCC AGTTCTAGCT TGGGATTTAA ATGTGGAGTG GnTTAATGAA TGCATTAAGA	120
	AGCTGCAAGA ACTTATAAGT GTGCA	145
	(2) INFORMATION FOR SEQ ID NO: 3208:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs	
	(A) LENGTH: 131 base parts (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	8 .
25		••
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3208:	.*
30	AAACGGTTTT AGATCGTATT CAATTGAAAA GGACCGGTAT TGAATGNAAT CACACTTAGC	60
	AGCGATTGAT CAGAACATTT TAAATTAACT TATTTATCAA CGGTATATGA AGGGGATTTG	120
	GAAGATGCGT T	131
35	(2) INFORMATION FOR SEQ ID NO: 3209:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs	1
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3209:	-
45 -	ATAAATTTAT CTATAATCTG TTGCTTGTTT TnCTGTTCTA CAAGTATTTT CACATTAGGT	60
	CCCGCATCCA TTGTAAAATA ACACGGATAC CCCGCTTCTC GGCATTCGTG AACAGCGCCA	120
50	TGACATCATA ACTITCTGCA CAGTAGGAAC GGGGGTG	157
	(2) INFORMATION FOR SEQ ID NO: 3210:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs	

(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3210:	
	AACGTAATAG ATATGGTACT TACTACATGG GAGAGAGTGC TAGATTCACA AACGGCAATC	60
10	AACCAATCAC AGTAAGAGAA GTGGGGCCAT TCTTATCTnG TCCAGTGGGT TATCAGTTCC	120
	AACCTGGTGG GTATTGTGAT TAT	143
	(2) INFORMATION FOR SEQ ID NO: 3211:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Torobodi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3211:	
25	ATGCATACTG TATGTGTTCC AGCATATACA ATTTTGTCCA TCTTTAATGA CAACTGTACC	60
	ATTTTTCACA ACATTTAATT CATCTAATTC CTTACCCTTC AAAGTTTATC TGTTGATCTC	120
	GGTAAAATTA ATTCTGC	137
30	(2) INFORMATION FOR SEQ ID NO: 3212:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	1
		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3212:	
	ATTCACGCTT TAAAGGACGT AAATACACGA CTAGGCTGTT TACCTTTAGA TCTAAATCAG	60
	AACAATTTTT TTACCATGGT GTTCCCCTTG AATTAGGAAT TTTATATAAA AATAAGCGGG	120
45	AAGCGTTGTG CCCCGCTTAC TCATAAGCTT TAATTAATGC TAAATAGTCT GACACTAGCG	180
	ATTTGATAAA ACTATACTAA AATTATTTAG AAGTCACTAA GATGCTAATG ACGACNANT	239
	(2) INFORMATION FOR SEQ ID NO: 3213:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid	
:	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3213:	
		CATCCTCAGA GTAGGAATAG CCATACCATC GAATAATTCA CGTACTGTTT CGAATTGAGG	60
,	5	TTCAAATTCT TGAGTTGTAT AGAGCTCGAA AATMTTTGCC CATTAGCATA ATCAGACTTT	120
		TCAAAAGTCT TGATATTTGA TACCCACGCT	150
		(2) INFORMATION FOR SEQ ID NO: 3214:	0
-	10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	, i	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3214:	
	20 .	CTAAGCATTG GTTTAAACTA ATGTTCAGAG CTTTnTGTGG TTTGTAAANA CAAGTATATT	60
		ncgagaacac gtttttgtat agagtctcaa ttataaaagt tagaatagtt gacaacagtg	120
		TTACGATATT ATTAAACAAC TGTCTATCAT TAACGAAAGC AATTAACAAG AGTACLTGTT	180
	25	GTGAAATCAT CGTTTAATAG TCAAAGATGA TCATCGTAGG GTAGACAACA TATCATTGAC	240
		TLAAGGAAGG GGAATGACCG ATGGGATTAA AAGATCAAGC TGTTACCTGG AGAAGGTATT	300
	30	TTCATCAATT TCCAGAACTA TCCGATAAAG AATTTAAGAC TACACAAAAA ATTAAAGATA	360
•	30	TTTTAACAGA ACATCATATT AGAATATTAG ACTTACCAC	399
		(2) INFORMATION FOR SEQ ID NO: 3215:	
	35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	40		•
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3215:	•
		CAGGTGAAAG CACAAGAGGA TTTGCTGTTT ATTTCTCTCC TGAAATTAAG AAATTCATTG	60
	45	CAGATAATTT AGATAAATAA TTAAAACTTA GACATTCACC CAATCCTGAC AAAATATACT	120
		ATAACTAACA TTTATTAATA TATATTGCAT TATTTAATAT GCATCAAAGC CAATCAACGr	180
	50	TTGATTTTCA CCAACTCAAT TGTTGATTGG TTTTATTTAT GTATGAATGA ACAACTTTTT	240
	50	GACATCATTA AGAATATAAA TGCGTTTGAA AGCATTTGAA AGCNACAACA TTTCTATAAA	300
		ATTTTTCAAT AACAATTGCG CCACTAAAAC TCAAAATTTC CACCACCAAC ATCCAAATTA	360

	(2) INFORMATION FOR SEQ ID NO: 3216:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3216:	
	AGTTGCATCA ACTGAATCCA ACGCTACGCA ATACGAATTA TTCCAATCTG GCATGCGTGT	60
15	TGGTAGAGAA ATTTTAGCGA CATCTCGAGC ACGGTTTACC TTGCCTTTnT TGGTGGCCAA	120
	CTTGCTTTAT GCTATGGGTT TTTCAAACTT AAA	153
	(2) INFORMATION FOR SEQ ID NO: 3217:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Torozodii Timegi	
	**(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3217:	
30	CTTTGCATAT TCTGGTTTGT AGTATTCATG GTCCGTCAAT TGTAGACCCA TCAATTGCAG	60
	CCATTACATA TGCGGAATAT CGAAGCGAAC TTCAAGTTGC TTCAAGCTGG TAGAACACGC	120
	ANATAAAATT ATTACATC	138
35	(2) INFORMATION FOR SEQ ID NO: 3218:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3218:	
45	CACTCCAAAC CAAGGATTTA CGTGCTTTAT ATMGAGGTAA AGCACATCAT GTKGTTaATT	60
	TTATGCmTTT TaTTGCmCmA GraTTAaGAG AAATTTTAGC nTCTTTAGGT TTGAAACGTG	120
50	TAGAAGACTT AGTTGGAAGA ACTGATTTAT TACAACGATC ATCAACATTA AAAGCGAATA	180
	GCAAAGCGGC TAGTATTGAT GTTGAAAAAC TGTTATGTCC TTTCGATGGG CCAAACACAA	240
	AAGAAATTCA ACAAAATCAT AATCTTGAGC ATGGATTTGA TTTAACAAAT TTATATGAAG	300

	AACAACGTGA TGTAGGGGTT ATTACAGGTA GTGAGATTTC GAAACAATAT GGAGAAGCAG	420
	GACTTCCTGA AAATACAATT AATGTTTATA CGAATGGTCA TGCTGGTCAA AGTTTGCAGC	480
5	ATATGCA	487
	(2) INFORMATION FOR SEQ ID NO: 3219:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs	
8	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
*	(D) TOPOLOGY: linear	
15		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3219:	
	ACCAACTCGG AATCATGCAA TGAACACCAT GGTTGAAATA AGTGAATTGC ATAAGTATCC	60
20	TGGCCTGGCA ATGCTGGTAT AACCTAAAAC CTTGTTGCAC GNAATGTATT CGCTACAATT	120
	AATGTACCTG CAAAACCGTT TAATAAGAAG TTCGAAATCG TTGCACCTGT ATATGG	176
	(2) INFORMATION FOR SEQ ID NO: 3220:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid	• •
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3220:	-
35	CTGATTTAGG TAATCTTTGC GCAATTGTTT TTTTACAGTT TCGGCAAATG GGTGCCCnGG	60
	CAAATAAATA TTGGCTATGC TCAAACCTGA ATTAATGGTG GGTGTGTCCG CCATCGTAAT	120
	TGGGnCCGCC TGAAGGGCCG CATATAAATG ATAGTGCTCT TCCGAATAAA AGGTAGGCCA	180
40	TATGTAATTG TTTTGTGGTT ACG	203
	(2) INFORMATION FOR SEQ ID NO: 3221:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 361 base pairs (B) TYPE: nucleic_acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
50		
ου	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3221:	

	GCAATGCCAG AAATGTATTA ACAACTGGCA CGTCTAATAG ATTGCTAACG GATTGTTTAC	180
	GTACGTTCAT CGCTTCTATC GGATCTGGAG AATTGGGATG TTATGACCAC	240
5	TGAACCACTT ATTTGTAAGC TCTGTCGTGA TTGACTTCAT AATGCTTGCG CTTGnCCTCA	300
	TTTCTAACAA CTCATCCTAC TTAChAAATT ACCCChGGGG TACACCTGGT CCACTTCATC	360
	A	361
10	(2) INFORMATION FOR SEQ ID NO: 3222:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		- 8 *
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3222:	
	GGGGCTCCGn GGAGGCAAGG GTAGAAAATG ATGTAAACGC TGCATTACTA GGCGAATTGA	60
	AATTACATCA ATATCAAGCA GAACGGATCT TTTGTATGAC GCTTGGTACA GGCATTGGGG	120
25	GTGCGTACAA GAATTAATCA AGGTTCATGT TG	152
	(2) INFORMATION FOR SEQ ID NO: 3223:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3223:	à.
	TTTGTTAAAT ATAGGCCCTG CAATGAGTGT ACTGGAATGG CAATAATCAT ACCATACAGT	60
40	AATACATCTC CAACATTTGC CTTmAATTCT TTTCCCATGA CTACCGGTCC TGGGATGTGG	120
	TGG	123
	(2) INFORMATION FOR SEQ ID NO: 3224:	
. 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3224:	. •

	TGGTTGGTAA CCGTAAATTA ATGCCTGACA ATGATATTAG CTnCCTAAGC ATATTTCTGA	120
	TGATTTAACA CATTATGAAA CGAGA	145
5	(2) INFORMATION FOR SEQ ID NO: 3225:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ner reservi believ se seed
. :		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3225:	٠,
	GGTATTGTCT AGTCAATTAC TAACACCATT TAATTGTGGn AAGCAAAAGC TAAAGGTTAT	60
	CGTGCGCTAT TGCAGGCATT GATGCTTCCA ACAAAGTCGA GTATTCAGTT GCATCAAAAG	120
20	TTTGCTTTT	129
	(2) INFORMATION FOR SEQ ID NO: 3226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3226:	
	GACACTACCG TTCCCACGTA GCATCAATCG TCTCAGTCGC ATCGTAGTCA TCTGTATGTG	60
35	TTCCAGCATA TACAATTTTG CCATCTTTAA TGACAACGTA CCATTTTCAC AACATTTATT	120
	CATCTANTCC TACCCTCAAA GTTATCGTTG ATCTCGTAAA TAGTCGGCAA	170
	(2) INFORMATION FOR SEQ ID NO: 3227:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45		¥
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3227:	
	TTACTGCTTT ACGTTTATCA TTTTCTAATT CAMAAATTCG TCATTCAGTT TCAACTTTAT	60
50	CGACAGCTGG ACTTTGCGCA GATAAATGTG CTGCTGTAAT ATCTAACACA TCGATTGCTC	120
	TTATCTGGCA ATAATCGTTG	140

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3228:	
,,,	GCGCCTATAA TTGCGCTACT TGATTTAATT GAGTAGATAA ATCTAATCCG AATAAATCCG	60
	TGACTTGCTT GATAAATAGC AACAATGCTn CAACTAAACC AGTTAGTACT GCTTTGTTTT	120
15	(2) INFORMATION FOR SEQ ID NO: 3229:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3229:	
25	GGCTATACAC CGACTACAGT AACATCTGGT AGCGACATTG AAAAAGACTC TAATGGTTTA	60
	ACAACAACAG GTGTTATTAA TGGTGCTGAT AACATGTACA TTAGATAGTG GnTTCTACA	119
	(2) INFORMATION FOR SEQ ID NO: 3230:	
<i>30</i> <i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	w.,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3230:	
40	TGGGAATAGC AACCAACAAT GCGACAACAA AGCCCGCTAC AAATCTCCAT nAACTAATTG	60
	CTAAATGTTG GAAAAATTTC TCCAGTCAAC AATGAAAGGC CATATGACTT TTTCCTACAA	120
45	GAGCAGGG	128
	(2) INFORMATION FOR SEQ ID NO: 3231:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

5.	AAGTATCGTG TACAAGTTAT GAATGANTAC CGTAATAAAA AAGGACCTGA TTATACAATT	120
	TTC	123
	(2) INFORMATION FOR SEQ ID NO: 3232:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1656 base pairs (B) TYPE: nucleic acid	io' i
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	· ·
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3232:	
	GCCTCAAAGA ACATGCTGAA CAGTCATCGC ATTCATATAG TTTGAAGTCT CGTTTAAAAC	60
20	CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA TTAGGACATA	120
	TARATTCATC ATTARGTTCG TCATATTTCC ARTTTTGAGT GTCGAAAATG TCACTTTTAA	180
	ACTITCTAGT TITATCTITA ATAAACATGC CATACGTAAT AAGTGGCGTT TTATTAAAAT	240
25	CATCTATAAT GGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT ACAAATAACC	
	GAAGLATTIT GAATCATTGT TAAAAATGGA ATTAAAGTTC TAGTATCTGT CGGGTTTTGA	300
		360
30	AATAGGTCAT AGGATAAAAC AAATTGAGAA TTTGTCGCTA TTTGTAAATT GTATCCTGGC	420
	TTAAGTTGGC CATTTTCAT ATGGTCTTCC TTCATTCTCA TAAAAGTTGC ATCATGATCA	480
35	GTTTTAGAAA ArCTATTTCT ATCTTTAAGA ATCGATTTTT GTTCTTCATA TTTATTTTTT	540
33	CTTTCGGAAT AATCATCAAA TTTmTTTTTG AACTTCTTAA TCTTAGTTCT TTTTTACGGG	600
	TCTGTTTTCT AATTTGAGTA CTATCTTCGT TCTCAATAGA ATGATTTAAA YCTTCGATTT	660
40	CTTTATCTAA ATGACTACCA ATTAAATCTA TTTCTTCTAT TGTTAAATCG CTATCTCCAT	720
	CTTCTTTAT CTCTGGTATT ATTTTTTCTT CAACTAAGTC ACGATATAAT GTTTTTGAAT	780
	TTTCGTTCAA TTTCGATTCG TGATTTTGAA TACTTTTCTT CCACACAAAT GTATACCTAT	840
45	TGGCATTAGC TTCTACTTTT GTACCATCAA TAAGATTTTG CTTTAAACAT TGACTATGAA	900
	ACTGGATAAA TAAAGATTCA ATTAACGCAT CAGTATTAGG ATTCACTCTA ATACGATTAA	960
	TAGTTTTATA AGAAGGTGTT TGATTTTGAG CTAACCACAT CATTCGAATA CTGTCATGAA	1020
50	GTAATTTCTC TATTCTACGA CCAGAAAATA CAGATTGAGT ATATGCATAT AAGGTGATTT	1080
	TTAACATCAT TTTTGGATGA TAGGATGTTG CGCCACGATG ATGTCTGAAT TTATCGAATT	1140
	CCCTATCAGG TATCGTTTCA ACAATTTCAT TAACATATCG CGAAATATCA ATTTCACCAA	1000

	GGCACTTCAT TAATTTAGTT TAGTGGTATT TATTAAATTA TACGAAGGGA CCCAACACAG	1320
	AAAATTCAAA TTATTGAATT AAACATTTAT GTGCAAGTTT GGCAAAGTGT CTTATTTTTT	1380
5	AAAAGTATGT AAAAGTAAAA TTACATGTTA ATACGTAGTA TTAATGGCGA GACTCCTGAG	1440
	GGAGCAGTGC CAGTCGAAGC CGAGGCTGAG ACGGCACCCT AGGAAAGCGA rCCATTCAAT	1500
	ACGABGTATT GTATAAATAG AGAACAGCAG TAAGATATTT LCTAATTGAA AATTATCTTA	1560
10	CTGCTGTTTT TTTAGGGATT TATGTCCCAG CCTGTTTTTT GTGATTTTTA ATAATTTGAA	1620
	TATGGraaat GTATTAWTCL CTCATTTGTA TAGATT	1656
15	(2) INFORMATION FOR SEQ ID NO: 3233:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3233:	
25	TTGCTCATAA ATCTTTCTT GGCGCTCTGA ACACTATCTT CTATTCTGTC GGAATTTTTC	60
	AAACATAGTC TTATCATTTn CTTCTAATCG CGTTAAACGC CAATCTTGTT CATGTCGTTT	120
	GGTAAATCCA	130
30	(2) INFORMATION FOR SEQ ID NO: 3234:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
	(5) 10102001. 11.101	*
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3234:	
40	GCCACGATAA AGAAGTAAGA ACAACACATG GTGTTACTGG TACAGGCTCA TGTTCTTGGG	60
	AAAGTTATTT GTGnAAAATG GTGTGAATTA CCTGGGGAAA AATCAACAAA CTGACTATCC	120
45		
	AA	122
	(2) INFORMATION FOR SEQ ID NO: 3235:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

4.21 st

1.00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3235:	
5	AACCAGGATA TGAAATCTGT GACTTATTGC GTTAGATCGT TTTGTAACTG CTACTATTGA	60
	AGAAGCAGAC CAATATAAAG GTACCATTCA TTGCAAAAGC ATTACATGCA TGAACCCAGT	120
	TGACATTTAG TTAGAGATGG AAGATAGTAT TGTGCATTTG CAGnTTCCAC ATG	173
10	(2) INFORMATION FOR SEQ ID NO: 3236:	6
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. 0
	(wi) SECUENCE DESCRIPTION, GEO. TO NO. 2026	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3236: GCGGTGTGCA TTTGAAAATG TTATCAAGAA TATTGAGTTA ATTCGCAACG ACATTATACC	60.
	AGCGATTANA AAGCATTTAT CAAAATACGA GGGGCGTCAT CATGAATATT GTATTATTGT	120
25	CA	122
	(2) INFORMATION FOR SEQ ID NO: 3237:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· 5:
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3237:	
	TTTTTTGCCC AAAATTTTTG GGTTTTTTT GGGTTAAAGG AAAAAAAA	60
40	GGGGGGGGTC CCCCAAAAAT TTTTTTCCCT TCCCTTTGGT TTGGTTTTTT GGGGGGGG	120
,,,	CCCCCCCT TTGGAAAACC CCTTAAAAAA ATTTAAnGGT TAAATTGGAA AAAAAAATTT	180
	AA	182
45	(2) INFORMATION FOR SEQ ID NO: 3238:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3238:

	GATGANGTTC GACAACGTAT TGTGGCAGAT GTTGCAGTTG ACTTTGAAGA A	111
	(2) INFORMATION FOR SEQ ID NO: 3239:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3239:	
15	AGTTGATCGT ATTITCCAGA AGAGACAGAA TTAATTGATT ATCGTGTTAG TTCTGTCACT	60
	GAAGGTACTG ATGCCCAAGC AGNAGTACAT GTAAGTTTAT TGATTGAGGT AAGACTGTCA	120
	(2) INFORMATION FOR SEQ ID NO: 3240:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3240:	
30	TACACATCTn TCTACGATTG TAGTTTATCG ATAGGTTTCG CATCATGAAA CGTGATAAAC	60
	AACCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCAGTGTTT	120
	AGCATAT	127
35	(2) INFORMATION FOR SEQ ID NO: 3241:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	4
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3241:	
45	GACTAAAATA CATGTTGGAA TACTTGGTCC CATGGGAAAA TATTGGACTG GGTAACCCAA	60
	TCACGGCTTC TGAAGTAGTT CTTTnTCTTC TATTAAAATA GCGACGGAAT CACACCTTCT	120
50	GCGG	124
	(2) INFORMATION FOR SEQ ID NO: 3242:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 122 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3242:	
	TACGTGTATA CACCGTTATC TTTATGGCTT TGAATTTCCA TAATAAATAC ATACGGTTTT	60
10	TGTGCAGAGC TCAGCACATA ATCATCTTTA ACTATAGTTT CTGGGAATCA CTTCATAGTT	120
	TT	122
*	(2) INFORMATION FOR SEQ ID NO: 3243:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3243:	
25	AACCTTTTCT GCAACCATAC GCCATAGGTA TGLTTTCTTT TTACAATTAA AGAGCCAACC	60
	GTTGTTATAG TCTAACAATG GTTGGCTCCT CTTATTTTAT GTGCTAAAAA TTTATAGGCA	120
	ATTITATIAC AACAATGTAC ATTITAAGGTG ACCTTCATGC CAAAATCGCA TCACTCATTT	180
30	AATGGAAGCA GCACGTCTTC ATACAAAGTC ACGATCCTAA T	221
	(2) INFORMATION FOR SEQ ID NO: 3244:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3244:	
	TTGCATTTTG ATTGTCTGGT GACCTTGGCA ATGACAATTC CCGCTTGCAA TCGGTATCTT	60
45	CAATATTATA ATCAGGTCTT GCCTTAGATT TTCGCTAAGT ACCGGTGATT CTCTACCATC	120
· · · · · · · · · · · · · · · · · · ·	ATACTCACCT CATGIGCTAT TTTTCTAGAG TGCTTCTTTT CACACTTTAT CTTATAAAAG	180
	GCTAGCTACT ATTACCGATT TATCATTATT AGTGGTTTTT ACCn	224
50	(2) INFORMATION FOR SEQ ID NO: 3245:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3245:	
5	GAAAGAGATT AGTGACAAGT TGGTTGTACT ATTACGTTAA AATTTGGAGA TTATGTGTGG	60
Ū	TGTTCAAGTA TGCGTTCAnT AATTGATATT GGCGCACCGT ATAACCATGT CAAAGTA	,117
	(2) INFORMATION FOR SEQ ID NO: 3246:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3246:	
	CTACAGGCTT TCGTACCACA GGATCAAAAC TACGCACTGT GCCTTGTACA TACGCATGAT	60
20	CAGCAATGAC ATTCCAAGTA TTACCACATG ATATTTGnCC AATTGTTACT ACCGTTC	117
	(2) INFORMATION FOR SEQ ID NO: 3247:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3247:	
	TACACANCTT TCTACGTGTG TAGTTTATCG ATAGGTTTCG CATCATGAAA AGTGATAAAC	60
35	AGCCAACATG ATGCTAGTTT GATTAAGTTT CTTCTAAACA GACTTCAAAC GGCATGT	117
	(2) INFORMATION FOR SEQ ID NO: 3248:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
*		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3248:	,
	CCCGTCCTTT GGTGGAACCG TTTTGTAGAA TTAAATAATA TTACAGAGCC GCTAGCAGTA	60
50	ACGATCCAAA CGAATTTACC ACCATCACGT GGATTAGGAT CGAGTGCACT GTCGCGGTTG	120
	CNTTTGGTCC TGCCA	135

AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT (2) INFORMATION FOR SEQ ID NO: 3250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA 120			
AAAAGCCAAC CCATGAAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT (2) INFORMATION FOR SEQ ID NO: 3250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: 25 AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double	5	(A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
AAAAGCCAAC CCATGAAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT (2) INFORMATION FOR SEQ ID NO: 3250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: 25 AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double			, ** ·
AAAAGCCAAC CCATGAAATG TTGGATTGGC TTTTTACATG CCATCTGAAT CTCTAATTTT AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT (2) INFORMATION FOR SEQ ID NO: 3250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: 25 AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEC ID NO. 2249.	
(2) INFORMATION FOR SEQ ID NO: 3250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC (AAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC (C) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (ii) SEQUENCE CHARACTERISTICS: (iii) SEQUENCE CHARACTERISTICS: (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	10		60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: 25 AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA 26 (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC (AAATTCATC AATCACAATT ACTCCGAAAG CTGGTACAGG TCACTCAGTA AGTAGTAATC (C) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		AAAAAAATAT GGAATATAAA TAAGACAGTA AAAATTAAAT TTCAGT	106
(A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250: AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDESDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	(2) INFORMATION FOR SEQ ID NO: 3250:	
AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 CCAGGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 CCAGGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA 120 GA (2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 132 (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3250:	
(2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25	AACGCTGAAG CAGATAAAAA ACGTCGTGAT AGAAGTAGAC TTAAGAAACG AGTCTGACAN	60
(2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		TCTAGTATTC CAAGTTGAAA AAACTTTTAA CTGTATTTAG GCGAAAATAT CGGTGAAGAA	120
(2) INFORMATION FOR SEQ ID NO: 3251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GA	122
(A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251: GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30	(2) INFORMATION FOR SEQ ID NO: 3251:	
GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	(A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC 120 45 CCAGTACATT AA 132 (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3251:	
CCAGTACATT AA (2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		GAACGTTGAG ATGTCACAAA CTGGTGAAAG TGCACGTTCA ATGCCAATGA CTGATAAAAC	60
(2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		CAAATTCATC AATCACAATT ACTCCGAAAG CNGGTACAGG TCACTCAGTA AGTAGTAATC	120
(2) INFORMATION FOR SEQ ID NO: 3252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	45		132
(A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			7 51.5
	50	(A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3252:	
	GGAAAATCTT CAAATTCTGC AAATTGCCAA TTTACCTAAT AACCAAACAT CTAAGGCATG	60
5	TGTAATGCTG CTAChTCCGC TTCGTCATCA GCTACAATGA CAAATACAGG TGCCA	115
	(2) INFORMATION FOR SEQ ID NO: 3253:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3253:	
	TTTCGTCAAA TTATGGGAAT AAAATAATCA TATTTAAGAT AGTAAATATT GAATAAGTTG	60
20	CTTTGAAATT TATAAAATGA AAGTATAGTG TCATGGGnAG TATAATAGTC AGATATATAT	120
	GTAACGGCAC TATATTGAAA	140
	(2) INFORMATION FOR SEQ ID NO: 3254:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3254:	
	AAATCTCCTA CTTTTCTAC CCATAAATAA TTGGCTAACT TTTTCATCTT ATCTTCATCC	60
35	TTTCTCTTCT ATTTAAAATG CTACAAATAA ATTTCCGCGA GTAATTTTAA TGTTTTACAA	120
	CGCTGTTCAA TACCTGGAAT AAGCGGTGCT ACTAACACCT CATCAACTTC AFACGTAGCA	180
40	ATGAAATCAT CTAATTGTGC TTTAACCTWT TCTTGTGTAC CTGCAATGAT GCGTGCTTGg	240
	ATGTGCTTGA ATCATCTCTT TGTCTCGATC ATTAAGCTTA TACTTTTGTG CTGTGTCTAC	300
	TGAAGGAAAA TCTTCAAATT CTGCAAATGT AATTTACCMA ATAACCAAAC ATCTAAGGCA	360
45	GTTGTAAGCG GCnACTTCCG CTTCGTTATC AGCnACAAG	399
	(2) INFORMATION FOR SEQ ID NO: 3255:	* *
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3255:	
	ACCATTCGTC AAAATATTCC AACACGCATT TAGGTGTGCA AGGTATCGGT ACCTAACAAC	60
5	GAAGCTATCG TCTCACTANC CTTAAAAGAT TTTAGAACAA CAGCTGCACT CATCAT	116
	(2) INFORMATION FOR SEQ ID NO: 3256:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3256:	
	AAAGACCTAA GGTTATGTAA TTGGCCTAAA TTTATTAATC GTTTAATTTC AGTTAGTAAA	60
20	AAGTCTGTGA GTAAGGGTGT ATGGAAACTG GTTAAATATT ATAGAG	106
	(2) INFORMATION FOR SEQ ID NO: 3257:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	(b) Topologi: Timear	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3257:	
	AACGTCCATC GTAATACCTT TTGTGTCTAA TGTAACTTGT ACATCGTCTA ATAATAAGTT	60
35	GACGATATCT TGACAATGCA TCTTTATCTA GATGTAAGAN TTCAACGGAT GCCG	114
	(2) INFORMATION FOR SEQ ID NO: 3258:	
	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) Idiobosi: Timear	
45	(will GROUPING PROGRAPHION AND TO MAKE AND TO MAKE AND THE MAKE AND TH	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3258:	
	TTAAAGCAGT TAATCCACAG GGAAAGTGGT TAATACAGTT GGGCTCTGGT GGATAGTACA	60
50	GTTGCAGGCA TGGTGGGCTG GGAATTGCTT CAGGGTTTAA CGAnTGGGAA AAGCCTT	117
	(2) INFORMATION FOR SEQ ID NO: 3259:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3259:	
	GGACCGCCAT ATCGTTGGCA ATCATCGCAC CTATAATCAT CGCAAGTATA ATAATATTAG	6
10	CACCITGCAT ACTITITAAC CAGGITGITA ATGCCTCAAA AATATTAGAA ATTGGTGCCC	12
	GnTT	12
	(2) INFORMATION FOR SEQ ID NO: 3260:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3260:	
	TACCAATGTA TATCCATATA CTTTTATCAT AATCATTTCA GCCGACTTTA GTTTGATGTT	60
25	TTTGCTTGAT TAAAATCTTT CGGCGATCTT CAGCTTGATG TTTTCGTTTG ATTAAATTGG	120
	TACAATAnAT	130
30	(2) INFORMATION FOR SEQ ID NO: 3261:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3261:	
40	GGCCTTTTTG GGCCGGGGTT GGAAATTGGG GTTGCCTTAA TTTTTTAATT AAATTTTGGA	60
	ATTAAAAAAG GAAAAAnTCC AAAGGTTAAT TTTAAAAAAA GCCCAAGGTT TTAAAAATTC	120
	CCCCAACCAA AAAGGGGGG AAAAAAGGTT GGGGGTTTTA AAAATTANCC AAGGTTTTTG	180
45	GGGCCCTCCC TTGGGGGTTG GGAATTAAAG GTTAACCAAG GTTTTTGGCC AAGGGGCCCA	240
	ATTGGGGGTT GGGGCCCTGG GGGAAAATTT TTGCCCTTTC CCAAGGGGTT TTTTAAAACC	300
	CGGATTTTTG GAAAAAAAAA AGCCCATTTT CCCCCCAACC CNAAAGCCCA GTTCCCGCCC	360
50	ATTTTCCCGG GGTAACCCTG CCCCCACCGG GGCCATTTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3262:	- 7

GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT 120	5	(A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
TGGTTCANTG GARACGTGTA CCGCARATHC CGTTARATGT TGTTGGATGT TGAGAGACGT GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT GCGACGGCTG ATGG 134 (2) INFORMATION FOR SEQ ID NO: 3263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEBNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TTTTTTTCTG TTGGTACTTG TTTTTGTGGTT GGCGATTGTG GTGTGTCTGA INTAGTAGAT TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEBNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (2) INFORMATION FOR SEQ ID NO: 3265: (3) CCTCATCAT TCCCACCHAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCCAACGCC CAGTAAATGC GTATAATTAA ATTAATT 107 (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEBNESS: double (C) STRANDEBNESS: double	on assert it. He a term	(xi) SEOUENCE DESCRIPTION SEO ID NO. 3262.	
GGCTGAACTG GCACATTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT GCGACGGCTG ATGG (2) INFORMATION FOR SEQ ID NO: 3263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TITITITICTG TIGGTACTTG TITITGTGGTT GGCGATTGTG GTGTGTCTGA INTAGTAGAT TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTIT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (2) INFORMATION FOR SEQ ID NO: 3264: (3) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (4) GTTCCATCAT TCCCACCHAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (4) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear	10		
GCGACGGCTG ATGG (2) INFORMATION FOR SEQ ID NO: 3263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TITITITICTG TIGGTACTIG TITIGTGGTT GGCGGATTGTG GTGTGTCTGA INTAGTAGAT TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTIT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (C) GTTCCATCAT TCCCACCIAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG (C) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	10		60
(2) INFORMATION FOR SEQ ID NO: 3263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TITITITICTG TIGGTACTIG TITIGIGGT GGCGATTGTG GTGTGTCTGA INTAGTAGAT (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (c) GITCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG (C) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	- 1	GGCTGAACTG GCACATTTGG GCAATGACCA ATGGAACAAG CTAATGGGCA AGCGATTATT	120
(2) INFORMATION FOR SEQ ID NO: 3263: (i) SEQUENCE CHARACTERISTICS: (A) LENOTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 26 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TITITITICTG TIGGTACTTG TITITIGTGGTT GGCGATTGTG GTGTGTCTGA INTRAGTAGAT 60 TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT 105 30 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: 40 GTTCCATCAT TCCCACCHAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG (C) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		GCGACGGCTG ATGG	134
(A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263: TITITITICTG TIGGTACTTG TITTGTGGTT GGCGATTGTG GTGTGTCTGA INTAGTAGAT 60 TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT 107 (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	15	(2) INFORMATION FOR SEQ ID NO: 3263:	
TTTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGTAGAT TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (CCTCATCATT TCCCACCOAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	20	(A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
TTTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGTAGAT TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT 105 (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (CCTCATCATT TCCCACCOAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT (2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS:	25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3263:	
(2) INFORMATION FOR SEQ ID NO: 3264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		TTTTTTCTG TTGGTACTTG TTTTGTGGTT GGCGATTGTG GTGTGTCTGA nTTAGTAGAT	60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		TGCATTGGTT GTGGCGTGTT TGCTTGATGG AGGTGTTGTC ACTTT	105
(A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264: (C) GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG (C) INFORMATION FOR SEQ ID NO: 3265: (I) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	30	(2) INFORMATION FOR SEQ ID NO: 3264:	
GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE-CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	35	(A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE-CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT (2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE-CHARACTERISTICS:	* .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3264:	
(2) INFORMATION FOR SEQ ID NO: 3265: (i) SEQUENCE-CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	40	GTTCCATCAT TCCCACCNAT ATCCAACATG TGGGCTACTG CAATGCTTTA GGCGTCAATG	60
(i) SEQUENCE-CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		CCTCATCATC ATCACAGCGC CAGTAAATGC GTATAATTAA ATTAATT	107
(i) SEQUENCE-CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(2) INFORMATION FOR SEQ ID NO: 3265:	
		(A) LENGTH: 109 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	· .
	50		

	GTCGTAACAA TGGTTCGTTA CCAAAGCATA nTTCGCCTTC TTGGCATCG	109
	(2) INFORMATION FOR SEQ ID NO: 3266:	
.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3266:	
15	TTACCTITAA AATAANGTTC TCCACTAGTT GGGCTAAACA AATTACATAT TTTGCTTTTG	60
	GAAATGTACT TTTTACCACT ACCTGATGGA CCTATAATGG GCAA	104
	(2) INFORMATION FOR SEQ ID NO: 3267:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3267:	
	TAAGCCATCA GAAACAAATG CATATAACGn AACAACACAT GCAAATGGTT CAAGTATCAT	60
30	ACGGTGCTCG TCCGACATAC AAGAAGCCAA GCGAGAACGA ATGCATACAA TGTAACA	117
	(2) INFORMATION FOR SEQ ID NO: 3268:	•
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3268:	
	GCTGCACAAG CACAACCTGG AATCAGCAAC ACCGGCAAAC CANCAGGTCA AGGAATAACC	60
45	AAGCAGCACC TCATAATAAT GCAACACCGG CAATCAAACA C	101
	(2) INFORMATION FOR SEQ ID NO: 3269:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3269:	X	
	CATACCCTAT TTTAGATATT ACCTTATTAC AAAATATTTT TACATTAATG	TCAGCTGCAG	60
5	GTTAGTATTG TTTTCCAAAA TTTACCGGTC ATCTTTGCCA ATTGGGTGTC	GCCAATCGGG	120
•	ATTTATCCTA GGAAGCCGAT TAAAAGGGTA CTGCCAGGGT TTTAGCCTGC	nGCTGCCTCG	180
	GGGTTTTCTT TAAATTAATG NAACCGC		207
10	(2) INFORMATION FOR SEQ ID NO: 3270:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs	*	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20 .	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3270:	*.	
	ATATTCGCAC CACCATAAAC ATAGATGGTG TTTTGTCCTT CTGCATTCAC	AGTGATAAA	60
	GGGCTTGGnc CCGTTTTTGC TTCAGCTGTT TTGAATAATA TATGATG		107
25	(2) INFORMATION FOR SEQ ID NO: 3271:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid	s;-	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3271:		
	TTGGTTACAC TTCTGCTAGT TTTAGTAACG ATGGTCCAAG ATTGTATGAG	. *	60
	GATCAGCACC AGATATTGCA GGTAAAAACG TTGCCAATCC ATTTGGGATG	GTTCTnATGC	120
40	TT	•	122
	(2) INFORMATION FOR SEQ ID NO: 3272:		
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 360 base pairs(B) TYPE: nucleic acid		
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3272:	*	
	GAAGGATGAT GATTCGGAGC ANCTTCTTGC AGAAGANGCG GNAATAACGT	GACATATTGT	60

	TGCGAGCGCT TGACAATCTA TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA	180
	GAAATTAAAG CGGmGTTTAC TTTTGTAAAT GAGCATTTGA TTTTTTTGAAA ATAAAGCAGT	240
5	ATGCAGGCGC TTGACTAAAA AGAAATTGTA CATTGACAAC TAGATAAGTA AAGTGAAAAT	300
	ATAGATTTTA CCCAAGCAAA ACCGAGTGAA TAAAGAGTTT TAAATAAGCT TGGATTCATA	360
10	(2) INFORMATION FOR SEQ ID NO: 3273:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3273:	
20	TCAATTTTAA CTGCAAATAA TAAAGCTGCA TGATTTACTT TGTACATTAT TGTAATTTCA	60
٠	GTAATACGAG GCAATGTCAG TMGCAGTGTT TAATAAATTT TGTTCGCTAT TT	112
	(2) INFORMATION FOR SEQ ID NO: 3274:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 336 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3274:	
35	TACATTTATG CAATCAACGT TACATTCAAT CGTTGGAGAA AATTGGCTTT ATTGACTTAC	60
	TAAAATCTAA AAAATCATAT GAAAGAATTG CACATATGTT AAAAACLGGT AAGCCATTAC	120
	GTAATTAAAA GATAGTCATT AAGAGAGGAT GATAACCATG CAAGAAAGCA TACATTGTAG	180
40	CTTATGGGCG TTCAGCGCAG CGAAAGCAAA GCAAGGCGCA TTATTCCACG AAAAGACCTG	240
	nTGATGTCGC AGCCAAAGTA ATTACAAGGC GTATTTGAAA ACGTATTGAC GGGANAAATT	300
45	CCAATAAGGA TTATGGATTG nAAGATGGTC CATTTG	336
45	(2) INFORMATION FOR SEQ ID NO: 3275:	-
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CAAATGCTTT TGCCACCCCA GATGCAATGG TACCAACACC TGTTTTCGAA ACTAATTTTA	60
. "	CCGGCGATAT CTGGCATCTT TTATTTCGGC ATTTTTTCAA ATCATGGTTA TTCCAGTTTG	120
5	GCGGCTTAAA AATTCnTT	138
	(2) INFORMATION FOR SEQ ID NO: 3276:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3276:	
	CATTATACGA GNATAAGTAA AATTGATGAT GTGACTAAAA AAGATGCACA ACAATTATTG	60
20	AAGATGCAAA AGAATTGCAT GCCAAGCTGA TACATTAGAT A	101
	(2) INFORMATION FOR SEQ ID NO: 3277:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3277:	:
	TGGTTATTCG TTCCTGATCG TTGTTGGTAT CTCACTATTC AANATTTATC GTGTGGCATT	60
35	ACTITAGITA CACCAGGIAC ATTIGAACCI GGCACTIGIT GCGAGIATIT CCGGTCTCGT	120
	CATT	124
	(2) INFORMATION FOR SEQ ID NO: 3278:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Torologi: Timeat	· ·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3278:	
	GACTITITGA CCAGITGIAG CACGACCACC GAGAGIAGCA TIGCATAIGC AATCAITGIA	
50	CCTTCGCCAA CGACTGHGCC AATATTAATT GTTGCGCCCA TCATAACGAC	60
	(2) INFORMATION FOR SEQ ID NO: 3279:	110

5 5	(A) LENGTH: 113 bas pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3279:	
10	TTGGTATATA GAGGGCAACC GCACCTGATA AAATGTGnCA CAGTTTTTAC AAGAGGTTAA	60
	GGAATGAGTT TGGAGGCATA CGAGCATCAA GATACCATTC GATGTTAGTA ATT	113
	(2) INFORMATION FOR SEQ ID NO: 3280:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPB: nucleic acid (C) STRANDEDNESS: double	• .
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3280:	
25	TTACCGTCAC CGTAATCAGT CCATACTTTA TCAGCTATAC CGGCTTTAAC AGCATAAATG	60
-	TTCGTTCCTG TAGGCATACC AAAGnCGATA CCATAGTGAC G	101
	(2) INFORMATION FOR SEQ ID NO: 3281:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3281:	
	ACTATGTTTG ANAAATTCGA CAGAATCAGA AGCACAGTCT GAGAACGCAA GAAAAAATTT	60
40	ATGACAAGTT AGATAGAAAT TTCGACGAAC TAAGGGCGTG ACCAAGAAGA AGATGA	116
	(2) INFORMATION FOR SEQ ID NO: 3282:	
45	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3282:	
	ACTTGGTTAG ATAATATAGC GTCGATTGTA TCACGAGTGT CTGTTCCAGT CATTATAAAA	60
55		

	CGTCGTTCTG ATGCTTTTCC TGAATCAT	148
	(2) INFORMATION FOR SEQ ID NO: 3283:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
,,,		
(-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3283:	. =
15	AAATGACGAT AGAGTCAGGT ATTAACTCAT TTTnCAATAG TATCAGGAAG ACTACCAAGC	60
	TTATGTTGAA GGGCATCTTT TGGCGTTACC GGGTTGGGCA	100
	(2) INFORMATION FOR SEQ ID NO: 3284:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Torologi. Illical	<i>.</i>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3284:	
	TTAAGAAACC GAGCAGCGCA TAANCCTGCA GTACCTTATC GCTTCTAGAT AATCCGATTG	60
30	CGACACCATT GCAAGATGAC CGGTAATTTT GGAACATATA C	101
	(2) INFORMATION FOR SEQ ID NO: 3285:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	4
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3285:	
_	TAAAATATTT CGCATCCCTA CACGCTAAAA TAATACATTA CACTTAAAAC GGCTGTTTTA	60
45	AAGCATCCTC CCATAAACAT CATCTAGTTG ATAATAGGGG GGGGGn	106
	(2) INFORMATION FOR SEQ ID NO: 3286:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3286:	
	TTTAACAATA CCTCAGAACA TACTATGGAA ATTGCTGCAA AGTTAATTGG GCATGCATAT	60
5	TGATCATAAT GCGCTTTTAA ATAAAATGGT GGAGA	95
	(2) INFORMATION FOR SEQ ID NO: 3287:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3287:	
	TCGAAATAAT ATCTACGCAC ACTGATAACA TAAAAATGCC TGGTAGAATA CTAATGAAAT	60
20	AAGTGCATAC ATGACCACAT GAATGCTAAT AACATGCTAG AACCCATTTT TTGAATATTT	120
	CACCACTCGA ATCATCAATA C	141
*	(2) INFORMATION FOR SEQ ID NO: 3288:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3288:	
35	TAGCTGGACC AGAACACGGT TCGACGTTGC AGGAAGTCTT GAACAGTCGC TGAACGCCAA	60
	GGCGATACTT GGGTTATCCA TGGTGAAAGN AATGGATTGG TGGTGCA	107
	(2) INFORMATION FOR SEQ ID NO: 3289:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3289:	
	GCTTTGCAAT GCCGATGTTA CTCGCAATAA TCATGTCGCA TCAATTACTT ATGGAAAGCA	60
50	GATTTACGTA TGTCTACAAG TTTAGGCGC	89
	(2) INFORMATION FOR SEQ ID NO: 3290:	

<i>5</i>	(A) LENGTH: 108 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3290:	
10	TGTTACGCCA ACAACAAATC CTACGTCGAC AACTATTTTT AAGCGATGAT TGCAATTAGA	60
•	CAGAAATCCA ATCATTTTTG CATTCCATCC AGTGCACAGA ATnTCGAG	108
	(2) INFORMATION FOR SEQ ID NO: 3291:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3291:	
25	GATCAAGNCC TGAGAATTTA ATTTAATTTA TTTTTATATT GGAGATGGTT AAAATGCTAA	60
	AACTCAACAT GAGTAACCAA AATATTGCCC TTAAAAATGC TGATCATTG	109
	(2) INFORMATION FOR SEQ ID NO: 3292:	
<i>30</i> .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	• .
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3292:	
10	TTGATAATTT TGATATAGAA AGTTATTTAA AATTCGAATA AAAATAATAA CTCATCGACG	60
40	TTTAATGGCT AGGTTCCAAT CAACTATGNG ACATAAATTC AAATTCGATC ACGTAACGAA	120
	A	121
45	(2) INFORMATION FOR SEQ ID NO: 3293:	. •
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3293:	

	GCGCGTAATA CCTGCAGTAC CTCTATCGCT TCTAGATAAT GCGGTTG	107
	(2) INFORMATION FOR SEQ ID NO: 3294:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(8) 101020011 121002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3294:	
15	AAAATGITAA ACCAAAAAGI TIGGIGAGIT ATAATATGGA ATATTAAATC TGTAGAAGAT	60
	AAAGCGAATA TAAAGTGATT AACTTTGGTA ATAAAGAATT AACAGCGAAA n	111
	(2) INFORMATION FOR SEQ ID NO: 3295:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3295:	
30	CCCCGACTAA ATCGAACGCT TTAATGTAAT GATTTGTCCG AATCCCCATC CTGCACCTGA	60
	TAATAAGGCG AATAGCAAGT TGGTTCCCGT nGGGAAGCCA CTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 3296:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3296:	
	ATTTATTCAA AACCCGCCAC ATGGGGCAAC GGTTGCCATG GCATGATAGT CCAGATACAT	60
45	GGAAAGGAAT ACAGTCCGGT TAACACTCCA TTAAAAACCT GCGGGTTGGT TAAACCATTT	120
	AACCTAAATG GGTTCCAAGG GTTAACGCGG TTTAAATGTT TGGAAAGGTT TnCCCAGTTT	180
	CCAAAAAGTT TTTnATTCCC C	201
50	(2) INFORMATION FOR SEQ ID NO: 3297:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs	
55		

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3297:	
	TTTAGACTTT CATCAGTGTT GAATATTTCT CCTTTAACGG TTATAGGTAA TATTTCCTGA	6(
10	GAAATATTTC CATTCTTTAC ATTTTCCGCT GTCAATTGAT GACTTCGATA AGCAAATTCA	120
	TCTTGTAATT CTCTTGAAAC ATCATACATC TKGGCCACAT TTTCAGCACC TKGAATCATT	180
	GATGGGTCGC TCATTTCAGG TGCAAATGAT GCACGCTCAT AAAACTCAGG TAATGCTGTT	240
15	TCGTACACAG AATGCGGTCG TTTGATTTTC CAAGGTGCTC GACTTGTACT TTCAACACCA	300
	CCTGCAATAT ATACCTTGCC AGCLCCGGCT TGGATCATGC GACATGCATA TTGAACACTT	360
00	TCAAGTCCAG ACCCACATTG CCGATCGTTT GTGACGCCAG TATTGAAGCT TAAGC	415
20	(2) INFORMATION FOR SEQ ID NO: 3298:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
		,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3298:	
	TTAATTGCAG CAGAGCGACT AGCTGATTCA GAGGTGTTAG TTTGTACGGT AATAGGATTC	60
	CCATTTAGGT GCATCGACCA ACTGCCCGAC GAAAAGCCAT TTTGAAAACC AGAANGATGC	120
35	CGATTCAAAA ATGGGTGCCA AGATTGAAAA TTTGGACCAA TGGG	164
	(2) INFORMATION FOR SEQ ID NO: 3299:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(wi) GROUDIOR BROOK BROOK GROUND AND ADDRESS AND ADDRE	
· •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3299:	
	GTAGATGCCA TTTTCACGTT TCTTAGTTAT TGGCATTTTT TAAATGCGAT GTGTGGCTTC	60
50	TACATAACGG GAAATTTTAA GTTTTATGAA TCNACATATC AATTGC	106
	(2) INFORMATION FOR SEQ ID NO: 3300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3300:	
	AAAAGGTGTT ATGAGATTAG TAAATCANTA GACAAGCAGG TAAATTAAGT GATGTCGCGT	60
10	CATTTAAGGA AGCGATTCAC AATCGAGAAC ACAAAGTACA AC	102
	(2) INFORMATION FOR SEQ ID NO: 3301:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3301:	
	TTAAAAGTTT GGAGATTATC GTGTCGTCTT CAAGTATGCG TTCATTAATT GATATTGGCG	60
	CACCGTATAA CCATGTCAAA GTACCATTTG NAATCAGTCA TTGGCGCATT GGCTGCCCTA	120
25	GCGTTCA	127
	(2) INFORMATION FOR SEQ ID NO: 3302:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid	
4 4	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		¥
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3302:	
	CCAGCTAGAC GATTGCTAAG GTATTGGATG TTTGAAACGT CCATGGACCC AATTGATTAA	60
40	TTGGnTGTAA CTCGGTCAAT GGGTATATCC TAAATGCACT GGCCTGCTGG TGTTCTTCTG	120
	GGCGTTGCTT CGGAAAT	137
	(2) INFORMATION FOR SEQ ID NO: 3303:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3303:	

	ATATAAATTA ACGACGCGTT AATGCAGGCT GATGTGATTT TTATTGGTTT CCCAATTTTC	120
	AAGCTTCCAT CCCTGGTGCT TTGAAAAATG TGTTTGATCT ACTTCCAGTC AATGCGTTTC	180
5	GTGACAAGGT AATAGGACTT GTAGCGACAG CAGGTTCTAG TAAACATTAT TTAATTCCTG	240
	AAATGCATTT AAAACCAATA TTGAGTTACA TGAAAGCACA TACGATGCAA ACGTATEATT	300
10	TATTGAAGAG AAAGATTTT CAAATCAACA AATTGTCAAT GATGATGTTG TATTTCGGTT	360
	AAAAGCGTTG GCACAATCCA CAATGCGAAC TGCCAAAGT	399
	(2) INFORMATION FOR SEQ ID NO: 3304:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3304:	
	CACCATTATT TACAGGACCT NCGATGACGT GTGGTCCTGT GTTAAGACAT AACATAATAT	60
25	TCTACCTTTG TAATCAGTAC GGGTTTATCT ATCACAGTAC GG	102
	(2) INFORMATION FOR SEQ ID NO: 3305:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3305:	
	TCAGCGTTAT CAATGANTGA CTCTAATGCC TTTTTACCCA TTTTTGTAAA TGGAACATGG	60
40	AAGCATAGAG ATGCGYAGTC AGCTAGCGAC TTACCTTGAC GTTTTGCGTA TTCATTCCAG	120
	CTTTGTTGGr ATGAGCGGAT ATAAGCATCT TTAGATAATG CACCATCAAC TAATGGATAT	180
	TTATGTCCAG TTGGACGCCA GA	202
45	(2) INFORMATION FOR SEQ ID NO: 3306:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	فر:
50	(D) TOPOLOGY: linear	

	AAGATAGGGA TITACACCTA TACCTCGTTC CGGGGAAGGG TCGGTGTTCT GAAAAGTTGG	60
-	AACTACTCCC GnCAAATATT AAATTATGGG AGCGGGAAGG ATCAGGGATT TGACACCTAT	120
5	GACCTCCATT CCCAGGGAAG GGAATGTGAT T	151
	(2) INFORMATION FOR SEQ ID NO: 3307:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3307:	
	AATTTCGTTA CCTGCGCCTT CTTTTTGCGG TTTTTAAATA AGCGAAAATT TCAGGCGGTA	60
20	AGACATAACG TCCCAGAATA GCTAGGG	87
	(2) INFORMATION FOR SEQ ID NO: 3308:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
	(b) Torobodi. Timedi	•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3308:	
	ATGATGGCAA AGTCACCAAA CTGATTGTGC ACACCAATCC ATCCATCTGC GCTGTAAATA	60
35	ATGGTTCGCA ATAATTTTAA AATACCTTCC GCTACATTTG ATTTAAAGCT GGTTGCGCAn	120
	TGGACTAGA	129
	(2) INFORMATION FOR SEQ ID NO: 3309:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3309:	
50	GTTCCTTTTA TCGTAGTTGG TGGGACTCCT TATCGGCATC GCGGCTGGAC TCTAGGCGGT	60
	GGANACGGAC ATTCAAAAGG GATTTAGTTC ATCCCAGATG GATTTCATTT TGGGGAATTC	120
	CATTTGGA	128

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
		,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3310: GTACGATTCA GCATAAAGTA CACCACATTT GTCACTACGA CATCTGTAGC TGGTATTGAT	60
	CATGCAATCA TGAATAACGC TAA	83
15	(2) INFORMATION FOR SEQ ID NO: 3311:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3311:	
25	CTGAGGATAA AGCGTCTCCA AGATAAGTCT AAAGATCATC ATAATGGGCA AAAAAGGTGG	60
	CAGCGATTCG GTGGCTGGGA ACAAG	85
30	(2) INFORMATION FOR SEQ ID NO: 3312:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3312:	-
40	ATTTTATGTC TAAATGCTGG ACCAACAGTA TTGGCTATTA TTTGGTAACG TGATTACTAC	60
	AAAAAATGGA CCGTTGAGTT CGTGGCACAT GATTGATTTT GTAAGTAAGT ATGATGCACA	120
45	TGGGCTnTT	129
73	(2) INFORMATION FOR SEQ ID NO: 3313:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

		TEACCIMAN TIMECANGG GACTIMACAT TOGGGAGTEA AGGIATIGAT CANGCIMATG	
		GCACAGTTAA ATGATGCCAA AG	82
5	٠.	(2) INFORMATION FOR SEQ ID NO: 3314:	
10	0):	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3314:	
		ATGTTATGGA AGAATATTGA GTTAATTGGC AACGACATTA TACCGGCGAT TAAAAAGCCT	60
		TTATCAAAAT AGTGAGGGC GTCATCA	87
20	1	(2) INFORMATION FOR SEQ ID NO: 3315:	
25		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
			,
30		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3315: TGAACCCGTC GTTGCCCATT TGCCGGTTCC CGAAAGCCGG CGCCAACGGT TCTCCCTGCC	60
		TARATAGGGG ATGGAATATT ARACCATCTG CACCTGGTTT ARCACGCTTT GCAATTTGAG	120
35		TTAAGACATC ATAAGG	136
	11	(2) INFORMATION FOR SEQ ID NO: 3316: (i) SEQUENCE CHARACTERISTICS:	f
40		(A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3316:	,
,		CATTGGCTGT GTCCATTTTT AATCGTTGCG AGTACGTnTA TTAGCAACTT GGAACTGCCA	. 60
50	*	TTGTTAATTT CAGCTGTCTG TTACATTTCA ACCATAGTCT TTCACAAT (2) INFORMATION FOR SEQ ID NO: 3317: (i) SEQUENCE CHARACTERISTICS:	108
		(1) SEQUENCE CHARACIERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3317:	** ***********************************	1.4
	,	ATCTGAAGCT GGGTTTACTA GAGAAGGTAT GTACGTGACA TGAATTACTA	ATGGATTTAT	_60
10		TCATCGAGTT ACATCTATAG TTTATTAAAT CAGATACGCC AAAATGCnAA	TTAGCTTACA	120.
• • 0		AAGATGATGC ATTAAATGCA CG		142
	4	(2) INFORMATION FOR SEQ ID NO: 3318:		
15		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid	* * * * * * * * * * * * * * * * * * *	
		(C) STRANDEDNESS: double (D) TOPOLOGY: linear		. •
20				* * * * * * * * * * * * * * * * * * * *
•		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3318:		
٠		AACATTATGT TAATCAACCT AATGAACGEC TTTATAAATT ACGCTAAACA	ATATACAGAT	60
25		ATGCCGTTTC TTATCATGCT GGATGAAGAT GAAAATGGAT ATAAAGCGGG	TCGATTTTTA	120
		AGAGCGAGTG ACTTAGGTCA AACAACAGAG CAAGGCGAAT GGAAGCCAGT	TATTCATGAT	180
30		GCAATCAGCG ATAGTTTAGT AGTACCTAAT GGCACAATGG GTCAACGTTG	GGAAGAAGGT	240
		AAGAAGTGGA ACTTAAAACT AGAAACAGAA GATGGTTnTA AAATTANCCC	TACATTATCA	300
		ATGACAGAAG GTGGATACGA ATTAGAAACA ATTCAATTCC CATACTTTGA	TAGTGATGGA	360
35		GATGGGATAT CATCGTCCAA TCCnAC		386
		(2) INFORMATION FOR SEQ ID NO: 3319:	.≅ .	
40		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		*
				- 50
45		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3319:		* ,
•	•	ACAATGAATG ACATGATTCG AGGTGGACGA CCCCTCCTAT TTTGCATAAA	TGCTTTTTGA	60
50		ATCGCCGGTC ATAATGTTCG TTGnCCAATT AACTCAATAT TCTTCATGAC	ATTTTCAAAT	120
٥٥		GGC		123
		(2) INFORMATION FOR SEQ ID NO: 3320:		

5	(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3320:	
10	GGCGAACTGT CAATTGCCGG TATACAACGT ATTTTAAGAG CTGCAGAACA TnCGGGTGTT	60
	AAACGTGTGG TCAATGACTG CCAACTTTGG TGCAGTTGGT TTTA	104
	(2) INFORMATION FOR SEQ ID NO: 3321:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3321:	
	GCGCCGGTTT TAACAGGTAA TTTAAAACCA AATACTGATA GTAATGCATT AATAGTCAGC	60
25	AAAATACAAG TATT	74
-	(2) INFORMATION FOR SEQ ID NO: 3322:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3322:	
	TCACTCAGGG GGAGATGTCA ATGGGTCAAC ATTATTTGAC AAGGTGTGGA CAGACATGTG	60
40	TTATACGGGA AATTGGGCGA CCGCACT	87
	(2) INFORMATION FOR SEQ ID NO: 3323:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3323:	
	TGCCAAATGT TCCCATAATT TCATTACGAD TCTTAAGTAG GTGGCTATCA TTACGATGCG	60

	ARIGOGOTO GARAGAIAM TAGCITCATO ARIGICATOS GICACIAMAS TARIAGITAS	100
	TTGCGTTTTA TGTTTTAGTT GCACTAGTTG ATCCTGAAGT TTATAACGTG TAAATGCATC	240
5	TAATGCACCT AATGGCTCAT CCATCAATAT AACGTTAGGC TTATGCACAT GCGCTCGACA	300
:	TAGTGCCAAA CGTTGTTTCA TACCCCCGGA CAGTTGCTCG GGAAAATGCT TTCCCCTGTC	360
	TTCTAAATCA ACTAATTTAA GCTGTGCGTT AATCTCTTCA	400
10		
	(2) INFORMATION FOR SEQ ID NO: 3324:	
5		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	-
	(D) TOPOLOGY: linear	
	(b) Torologi. Illiedi	
* .		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3324:	
	GAAACCATCG ATTGTAGCAC GAACCATGTT GGATTGGTGT GTTTGTATCC TAATGTATTT	60
	ACTTAAGATA TCAGTGATAC CTGTCTAATT GCAAGTACGG TCAGGA	106
25	(2) INFORMATION FOR SEQ ID NO: 3325:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 113 base pairs(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3325:	
35	(XI) SEQUENCE DESCRIPTION. DEG ID NO. 5525.	
33	TCTGAAnTCG CTGTCTGAAT CTGGAATCAC TGTCTGAAAT CCGAAATCGC TAATCTGAAA	60
-	TCCTGAAATC CGCTAATCTG AAACCTGGAA GTCGCTGGTC TGGAAGCCCT GAA	113
40	(2) INFORMATION FOR SEQ ID NO: 3326:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
-	and the control of th	,
	(with another product product of the second	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3326:	
50	TGTCACGTAC TTGCTGTTCA ACAAATACGT CTTACTGGAC GTGCACCTCA TTCTTCATCA	60
	TAGCCTTCTT CATTAACC	78

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. *
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3327:	
10	AATTGAAAAT TATCTTACTG CGGTTTTTAG GGGTTTATGT CCCAGCCTCT TACTChAATT	60
	ATATTCACTA TCCATTAGAC CAAATGGGCC ATTTCCAATA ATCCCGCGGT GGTTTCCGA	119
15	(2) INFORMATION FOR SEQ ID NO: 3328:	
*	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Toroboot. Timedi	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3328:	•
25	GTGTTAAAAC GTCACGACGT TTGTTTAAAA TGATGCGTCA TAATGTCTAC ACTTTGCTTG	60
	CGATCATTCA T	71
÷	(2) INFORMATION FOR SEQ ID NO: 3329:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i> .	(b) Topologi: Tilleal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3329:	
40	CTGACGAACC TTGCATCATT TAACTGTCCA TTAGCTTGAT CAATACCTTG ACTCGCAATG	60
	TTAAGTCCTT	70
	(2) INFORMATION FOR SEQ ID NO: 3330:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3330:	

	CCAATCTCG			470	er e	69
	(2) INFORMATION FOR SEQ ID NO: 3331:					
5	(i) SEQUENCE CHARACTERISTICS:			te e		
	(A) LENGTH: 70 base pairs					•
	(B) TYPE: nucleic acid		:		1	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear				*	
10	(3) 10100001. 1111011					
- 4						
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 3	331:		,	
15	GGACACTAAC ATTAATATGG ACTGGTAATG TTG	CTGTTAA 1	TAAACTCA	TA CCAAA	TCCTG	. 60
	GGCATCTCTT		300		*	70
	(2) INFORMATION FOR SEQ ID NO: 3332:		*			
20	(i) SEQUENCE CHARACTERISTICS:					
	(A) LENGTH: 82 base pairs					
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double				• •	
	(D) TOPOLOGY: linear	0 -				d.
25				47		
25				1 1	•	
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 33	332:	-		
	CCTTGGGCAC CTTCAATTTG CATATTACGA CGT	TTTGCAG (CTTGGTTC	AA TTGGC	AATAA	60
30	CTACACCTAG TGCAGTTGGA TC					82
	(2) INFORMATION FOR SEQ ID NO: 3333:					
	(i) SEQUENCE CHARACTERISTICS:		*	•		
35	(A) LENGTH: 76 base pairs					
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double					
	(D) TOPOLOGY: linear					
		· .	•	•		0
40				•	. ^	
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 33	333:			
	ATAAAATAAT TAGAACTCTA ACATTGGTTT AAC	TAATGTT	IAGACTTT	TT GTGGT	TTGTA	60
45	AAAACAAGTA TATTGA	• •		- 14 -		76
	(2) INFORMATION FOR SEQ ID NO: 3334:		*	511.0		
	(i) SEQUENCE CHARACTERISTICS:				•	0
50	(A) LENGTH: 74 base pairs			:		•
30	(B) TYPE: nucleic acid			•		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear					
	(D) ICIONOGE ALMONE		•			

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3334:	
	TGGTAAGTTG AATAAAGTAT TGAAATCGTT GCCAATATCT TTATACCGTT GGTTCCTGGC	60
5	ATTTATTGGG AGGC	. 74
	(2) INFORMATION FOR SEQ ID NO: 3335:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3335:	
	AGATAGTTAT GCGCAGTTAA AAACGGTGAA ATGTATTTGC AATAATATGC ATATAGGCAC	. 60
20	CATACGAGTA AGGG	74
20	(2) INFORMATION FOR SEQ ID NO: 3336:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		• • •
3 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3336:	
	TTGAATCATT GTTAAAAATG GAATTAAAGT TGCTAGTATC TGTCGGGTTT TGAAATAGGT	60
	CATAGGAGAA AACAGG	76
35	(2) INFORMATION FOR SEQ ID NO: 3337:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	*
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3337:	•
	CCAAAGAGGC GTTATTAAGC TATTGATAAA AGTTATGTTA CTAAAAAATG TATTTAAATA	. 60
	AGTAGTACCT AA	72
50	(2) INFORMATION FOR SEQ ID NO: 3338:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

8	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3338:	
	ATAAGTCGTT_CTACCGTATA_GCCGTCATTA_TTAATCACAA-ATAATACCGG-TTTAATATGC	
10	TGTCTGGTCA TAGTT	75
• • ()	(2) INFORMATION FOR SEQ ID NO: 3339:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3339:	
	TTCATCAAAG TATTCCAATG GGAGAAAAAG CACAATAACA TTATCACTGG ATGCTAAATC	60
25	TAAAGGAACC TC	72
	(2) INFORMATION FOR SEQ ID NO: 3340:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	ing the state of t
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3340:	
	GTAAAAATAT TTTAATGAAT GTCTTCACTG GAGAACCATT GACAACCTGG TACAAGTGGG	60
40	ATTATTGGCG TTATTTT	77
	(2) INFORMATION FOR SEQ ID NO: 3341:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3341:	
	AACCAAGGAT GGATTGCTAT TTTAATCCTT GGTTGCTCTT TATTTTATTT	60
55	ACCTAGA	67

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3342:	
	CTGGCAAAAG CACGTTTTAC AAGCATCAAT CCATTAATTA ATAATTCCAT TAAATGTAGA	60
	TTCACAGGGA TATG	74
15	(2) INFORMATION FOR SEQ ID NO: 3343:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 415 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3343:	a)
25	GTTTGATCAT TAGAGAGATA TAGATATGCC GTAGAAAATA ATATGTCATT TGCGGATATC	, 60
	ATGGTTAAAG AAGAAATGGA ATTAAGCGGT AAATCACGTG ATGAAGTGCG AGCGAAATGA	120
30	AACAAAATTT AGATGTCATG CGAGACGCAT AATCAAAGGG ACGACAGGTG ATGGGGTTGA	180
	AAGTGTACGG TCTACACTGG TCATGATGCT GCTAAACTAC GTGATTATAA TGAAACACAT	240
	CATGCTTTGT CTGGGATATG AAATGATTGA CGCACAAGGG TGCCATTGCA ACAAATGAAG	300
35	TCAATGCTGC CGATGGGTAT TATTTGTGCA CGCCAACAGC TGGTTCCTCG GGTACCATTC	. 360
	CCGGTGGCAC TTTTAAATTA GAAAAAACAC TGGATHGAAC CAGAAGAGCC AATGH	415
	(2) INFORMATION FOR SEQ ID NO: 3344:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3344:	
50	TCCTATACCA CCACCGTCAA CAGCTCCTGC CATCGATCGT ACTTTCAATA AGTCCAATAA	60
	TCGCAGTGGT AATTTCTAAT ACTA	84
<i>55</i>	(2) INFORMATION FOR SEQ ID NO: 3345:	

5	(A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3345:	
10	CGGGAGGTGT TAANTCTTCA CAAAATGCCG TACTATTCTT TGATGNAATC CATCAAATTA	60
	TCGGTTCAGG TGCCACAGGA AGTGATTCAG GTAGCNAAGG GTTATCTGAT ATTTTGAAAC	120
	CTGCATTAAG TCGTGGTGAG ATTTCTATTA TTGGTGCAAC AACACAAGAT GAATATCGAA	180
15	ACAATATTCT TAAAGATGCT GCATTAACGC GCAGATITAA TGAAGTGCTT GTTAATGAAC	240
	CAAGCGCTAA AGATACTGTT GAAATTTTAA AAGGTATTCG CGAAAAATTC GAAGAACACC	300
	ATCAAGTAAA ATTACCAGAT GACGTATTAA AAGCATGTGT TGACTTATCA ATTCAATATA	360
20	TTCCACAACG ATTATTACCA GATAAAGCAA TCGATGTGTT AGATATTACA GCAGCACATT	420
	TATCHGCGCA AAGHCCAGCT GTCGATAAAG TTGAAACTGG AGAACGAATT TCTG	474
25	(2) INFORMATION FOR SEQ ID NO: 3346:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3346:	•
35	AAAATTAATA ACTCCTTGGT TATTGATATG CCTAAAGAAG AAGGTACAAT ACAACTAACA	60
•	TTAG	64
40	(2) INFORMATION FOR SEQ ID NO: 3347:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3347:	
50	AGGAATAACT TGATATTGAT GATAAAATCG TCAAACGGCA CTAATATTTA AAAAACAAAT	60
	GTTTTAAGTT GTTGATTTAA AATATTAAT	. 89
55	(2) INFORMATION FOR SEQ ID NO: 3348:	

	(A) LENGTH: 107 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3348:	
10	ATAACTTGTA CTGCTTCCCA TTAATCACTG TGTCTCTTCA CCAGGAGCTG GCATTTCTTT	60
	AAAGAACAnT TCTGATAAAG GTACAATTTC ACCGGGCATA ACTTCAT	107
	(2) INFORMATION FOR SEQ ID NO: 3349:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3349:	
25	CAACGCATCC TGCACTTTTA CCTATTCCTG AATCACCGGT AATTAGTACA CCAACACCGT	60
	AAACATCTAC TAAA	74
	(2) INFORMATION FOR SEQ ID NO: 3350:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	.4
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3350:	
	AGATGCACCT ACTTCTAACT GTCGCCAACA TCGCCGCAAT CATTTCAAAA CTACGTTCTG	60
40	TA	62
	(2) INFORMATION FOR SEQ ID NO: 3351:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3351:	
	GCTGCAAACA ACAAACTATT TTTGATTAAA TTGTGGATAT GATGGTAACC AACCAAGTCT	60
ee.		

	(2) INFORMATION FOR SEQ ID NO: 3352:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3352:	
	ATTGAACGCA AGATTTCGAT ATAGAACATC TAGCGACGTC GATTCGCAAG GTTGAACCAT	60
15	CTACATTAGG TGAGGAA	77
	(2) INFORMATION FOR SEQ ID NO: 3353:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3353:	
	TAATCAACAC GAGGAGATGC TATTTAATGT CATCTGACAC AAACAGTTTA GCACATACA	59
30	(2) INFORMATION FOR SEQ ID NO: 3354:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3354:	
40	TTATGTAACC GACGAATGCT GCGATAGTGC TACGCCATCA CCGCCAGCTA ATCCGATTG	59
	(2) INFORMATION FOR SEQ ID NO: 3355:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3355:	
	TAACTATACC TTTAGGGTTA CTACCACGCT TAGGTAGGTC ATAACCTTTA ACCACATCT	59

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3356:	
10	AATAACGCTA AACCTAAAAT GCTAAATAAT CCGCCGAACA ACATGCCGTT GTTTGTTGA	59
	(2) INFORMATION FOR SEQ ID NO: 3357:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3357:	
	CCAGAACCAC CCACGCCCTT TGAATATGGG AACTCAAAAC GATCTACTGG CTGATGTAAT	60
25	TACCCCTGTT TTGATTG	77
	(2) INFORMATION FOR SEQ ID NO: 3358:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3358:	
	AAGTTAGGTC TAGGGAACAT CGATAAATTA CCAGTAGTAA ATGCAGTTGA ACAACCAGA	59
40	(2) INFORMATION FOR SEQ ID NO: 3359:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50°	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3359:	
	CATGACCTTT AAATTGCATA TCTTCTGCAT CAGGTGCATC GCTTTTAACA ATAACGTCA	5 9
	(2) INFORMATION FOR SEO ID NO: 3360:	

5	 (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	130
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3360:	
10	ACGCGACAAC ACCGCCCTCA ACTAAAGTAG AAGCACCGCA ACAAACAGCA AATGCGACA	59
x	(2) INFORMATION FOR SEQ ID NO: 3361:	er en de seu e
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3361:	
	GATTTGATCG AATTGAACGA ACATTTGCTT CTCAAACGAT TGCATCTATT AAAGAAGTAT	60
25	GTCTAG	66
	(2) INFORMATION FOR SEQ ID NO: 3362:	
	(2) INFORMATION FOR SEQ ID NO: 3362:	:
	(i) SEQUENCE CHARACTERISTICS:	
30 .	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
		•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3362:	
:	GGTTGCACAT CTTTTACTAC AAATTTCGCT GGTAAAGATG TTGCAAAAGT ATGTCCGT	, 58
40	(2) INFORMATION FOR SEQ ID NO: 3363:	• . 2
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
• ×		
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3363:	5
.50	CCTTGAAACG GCAACATTTT TGGGTCCTTC TCCATCATTT TATTTAAAAG CGCATTAT	58
	(2) INFORMATION FOR SEQ ID NO: 3364:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3364:	
	TTGAGAATTT AGGAGGTTAA TGCGTTGATT AAAAGTGGCA AAGCACGTGC ACATACGA	58
10	(2) INFORMATION FOR SEQ ID NO: 3365:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3365:	
	GTTTTTTAT TTTGGATAAA AGGAGCAAAC AAATGGATAT TAACTGGAAA TTGAGATT	58
	(2) INFORMATION FOR SEQ ID NO: 3366:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3366:	
	ATTCATCGGT AATGACATTA TTTTTACTTT GTAATTTCAG TAACAGTTGA TCATCATG	58
35	(2) INFORMATION FOR SEQ ID NO: 3367:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	٧.
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3367:	
	TAAATTAACA GCCGGATGAA ATGAAAGGTG CTACATGCAC AATCAGTAAT ATCGGTTC	58
	(2) INFORMATION FOR SEQ ID NO: 3368:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3368:	
. <i>5</i>	TACCTACTGG TGAGATTGGC GAACTTGCAA TTAAGGCTAA AAATGTCACG CCAGGATA	58
	(2) INFORMATION FOR SEQ ID NO: 3369:	
· · · · · ·	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3369:	
	TTAAACGGAG AAGGCTTTAC TTTACATGTT GAGGAAGGTC AAGAAGTTAA ACAAGGTG	58
	(2) INFORMATION FOR SEQ ID NO: 3370:	. ,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(will appropriately and the volume	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3370:	
<i>30</i>	CTGCTAAACT ACGTGATTAT AATGAAACAC ATCATGTCTT TGTCTGGTAT ATGTAAATGA	60
	TTGACGGC	68
	(2) INFORMATION FOR SEQ ID NO: 3371:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3371:	
45	ATTACCAACA GCGAAAATAT TGAAAAGCTG TAAAAAAGCT GGTGCAsmCm TACTTGGATT	60
	GAGAATTTAG GAGGTTAATG CGTTGATTAA AAGTGGCAAA GCACGTGCAC ATACGAATAT	120
	TGCACTTATA AAATATTGGG GTAAAAAGA TGAAGCACTA ATCATTCCAA TGAATAATAG	180
50	CATATCTGTT ACATTAGAAA AATTTTACAC TGAAACGAAA KCACTTTTAA CGACCAGTTA	240
	ACACAGGATC AATITTGGTT GAATGGTGAA AAGGTTAGTG GCAAAGAATT AGAGAAAATT	300
	TCAAAATATA TGGATATTGT CAGAAATAGA GCTGGCATCG ATTGGTATGC AGAAATTGAA	360

	(2) INFORMATION FOR SEQ ID NO: 3372:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3372:	:
,	ATTTCAACAA CTTTAAAGCA CGTATAATGA TGATTTTCAG ACTTGTACAA AGGAGAAA	58
15	(2) INFORMATION FOR SEQ ID NO: 3373:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3373:	
	AAACCGAGCA GCGCAGTAAA CCTGCAGTAC CTTTATCGCT TCTAGATAAT CCGATTG	57
	(2) INFORMATION FOR SEQ ID NO: 3374:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	. ·
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3374:	
	AGTACGAATA TTACCTTTAT TTAATGGGTG AGCTAAGTTA CTTTCATTT CTTCGTG	57
40	(2) INFORMATION FOR SEQ ID NO: 3375:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3375:	
50	GGTGAAGTAT AACTTTGTAA TGGCAGCGCA CTTAATGACT GCCAATAATT GTGACCAACA	60
	ACTAACAGAC	70

5 ,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3376:	
	TTCCAAACTT CATTAGGTGA TAGCTTTAAT TTCAAGGCTG GCAATCGCCA TAACAAG	57
	(2) INFORMATION FOR SEQ ID NO: 3377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3377:	
	TCCTTCAAAG TCAATGGATT TGATCCTCAG AGGACTCAGT GTATCCTCCA AGTGACCTGG	60
25	CTCGCATCCA	. 70
	(2) INFORMATION FOR SEQ ID NO: 3378:	* 1
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3378:	
	ATGAATCATT AAGCCTTTCG GTGCATATGC TGCAAGACTT TGACCAGCAT GACCAT	56
40	(2) INFORMATION FOR SEQ ID NO: 3379:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3379:	• •
50	CCAACGACTG CGCCAATATT AATTGTTGCG CCCATCATAA CGACAGCACC ATCTTC	56
	(2) INFORMATION FOR SEQ ID NO: 3380:	,

5	(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3380:	
10	ACAAAAGCAT CAAGCTGTTG AAACAATCAA TGATAGCATT CGAGATTATT TAGTTAG	57
	(2) INFORMATION FOR SEQ ID NO: 3381:	,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) 10102001. 111cu1	•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3381:	
	CATATAGTTT TGCTCACTAC CATAACCTGC ATCAGCTACA AATAACCGAA GTATTT	56
25	(2) INFORMATION FOR SEQ ID NO: 3382:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid	¥ · · ·
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	99
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3382:	
35	GAACACACAG GCAACCCAAA GCAGTGACGG CGAAANTTGG ATTGATCTTG CAGCATTGAA	60
	GAAGATCGCG ATGACTATAC AATCAATATC GAGTAGAAGA CCGAT	105
40	(2) INFORMATION FOR SEQ ID NO: 3383: (i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3383:	
50	nGTATGTGAA AACTATTTGG CGATATTTTA GTGATGAGCC TCAGTGATCC TGGTTCCTGG	60
	TTATCACCTC TGCTAGTTTA GTACCGATGG TCCAAGATTG ATGAGC	106
	(2) INFORMATION FOR SEQ ID NO: 3384:	

5	(A) LENGTH: 57 base pairs (B) TYPE: nucl ic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3384:	
10	TTCTTCGTCA AGATCAATCT CTTCAAGTAC AATCTTTAAT ACCTTCTGCA CCCATTT	57
	(2) INFORMATION FOR SEQ ID NO: 3385:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3385:	
	CGGGCATCTT AAAGCCGATG TTTATCCTGT AATCCTCCAA AAGGAAACAT GTACCTCAAT	.60
25	TAGAG (2) INFORMATION FOR SEQ ID NO: 3386:	65
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3386:	
	CATTITIAAT TATTICTATI TGCTTTTTAA CCACTTCTCT GACTGCTTCC GAATCATTTT	60
	TCTTAACTGC A	71 .
40	(2) INFORMATION FOR SEQ ID NO: 3387:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	e e
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3387:	
	TTAGAAAATG ATAAACGTAA AGCAGTAAGT GCTGAAGAAT ATAAAAAAGC TGACG	55
	(2) INFORMATION FOR SEQ ID NO: 3388:	

5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3388:	' .
10	TCTTCGACAA CTTTAATAAT ATTAGCCAAC GCAGTGTCCC CGCCAACTTT TGTTGC	56
	(2) INFORMATION FOR SEQ ID NO: 3389:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3389:	
	ATTTATTAAC GATTAATGAC GCTGGCATGC CAATTCCAGA TGATCATCGT CGTATC	56
25	(2) INFORMATION FOR SEQ ID NO: 3390:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3390:	
35	ARATGCTATG TACCCACTTT AGATGAAATT TTAGTAACGT TATGGCCCGA AATGCCAACT	60
	ATTATATTGA	70
	(2) INFORMATION FOR SEQ ID NO: 3391:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Torollogi. Illiear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3391:	
50	CAAACGCAAT AGCTGGTGAC TTAACTGCGG GCACTTGGCA TGTGGATGGC AATACTTCG	59
	(2) INFORMATION FOR SEQ ID NO: 3392:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

.

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3392:	
	GCATCTACTG GGAAACGATT ACAAATTGGT GATTTATTAC AAAAGCCAAC TGTAT 59	5
10	(2) INFORMATION FOR SEQ ID NO: 3393:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with grounder programmer, and to we asset	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3393:	_
	TTTATAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTG 55	,
	(2) INFORMATION FOR SEQ ID NO: 3394:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3394:	
	TGCTTACGCT CAGTGACATA ATCTAATGTG GCACGTAAAG CGCCACCATA CCACC 55	
35	(2) INFORMATION FOR SEQ ID NO: 3395:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3395:	
45	AGTCACCATT TGTTGGTACA GGTTATGGAA CACGTTGCAG CACGTGATTC TGGTGCGG 58	
	(2) INFORMATION FOR SEQ ID NO: 3396:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	\cdot \cdot	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3396:			
	CAAATGCATT TAAAACCAAT ATTGAGTTAC ATGAAAGCAC ATACGATGCA	AACGT		55
5	(2) INFORMATION FOR SEQ ID NO: 3397:			
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		,	
			. *	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3397:			
	TGTTGATGAG TCGTGTTTTA TCTCAAGATG TGTTACTCAA AAAGTTATAG	AAGA		54
	(2) INFORMATION FOR SEQ ID NO: 3398:			
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
25				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3398:			
	CTTCGTCAAG ATCAATCTCT TCAAGTAAAT CTTTAATACC TTCTGCACCC	ATTT		54
30	(2) INFORMATION FOR SEQ ID NO: 3399:			
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			<i>,</i>
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3399:	•		
40	AATGAAAAGC TAGCTGTAGT TGCAAGAAAA ACTGGCTTAG CGATGGCAGT	ТССАТ		55
	(2) INFORMATION FOR SEQ ID NO: 3400:			
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
••				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3400:			

(2) INFORMATION FOR SEQ ID NO: 3401:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3401:	
	TAAAAATCGC GCACTTAAAC CGCTTATGAC AATCATTATT ACCGCAATAT GCTTG	55
15	(2) INFORMATION FOR SEQ ID NO: 3402:	
••	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3402:	
25	GGCACCTCCT TGGATTATTT TTCTTCTACT GTTACTAAGT GCTTAACTTT GTTG	54
	(2) INFORMATION FOR SEQ ID NO: 3403:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3403:	
	GATAAGTCTA ACAAGTGGCA CCCATAATCG ATTAAACTAC CGCCACCTTG CAACGTTT	58
40	(2) INFORMATION FOR SEQ ID NO: 3404:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3404:	
50	TCGTTTTCGT CCCCAAATTC TGCCAACTTA TTCATGAACT TATCTAGCGC TATTGTTCTT	60
	TGTCT	65

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3405:	
10	AAATTTCAGC ACCAATTGTT ATTGGACGAC ACCATTTAGA TGCTGGTTCA GTTGC	55
	(2) INFORMATION FOR SEQ ID NO: 3406:	.*
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3406:	
	TCGATTTCAG CGGAACACAT GTAACGTTAG CACAAGCCAT GAACCAATTA GGTGGC	56
25	(2) INFORMATION FOR SEQ ID NO: 3407:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		• *
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3407:	
	AATTGCTAAT GGTCAAGTAT GGACGTGATC ATTGTTGGTA CTACTTATTG CTGAAACTGT	60
	TAAAGATTAG AAGG	74
40	(2) INFORMATION FOR SEQ ID NO: 3408:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		•
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3408:	
50	TGATTTCACA CTTGATAACG GATACTTCGA AGAGATACAT CAGCAGCGTT CAGCTCAGAT	60
	AGTGCTCA	68

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3409:	
	TATGATTAGA AAAAGGGGAA TTTTTATGGA GTATAAGAGT TACTATGATT CGCC	54
	(2) INFORMATION FOR SEQ ID NO: 3410:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3410:	
	TATCTTTCAT CATTGAAGAA GATCGCGATG ACTATACAAT CAATATCGAG TATA	54
25	(2) INFORMATION FOR SEQ ID NO: 3411:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3411:	
•	TTGAAGTGCA CGAATCGAAT TATTGTAAGC AGTAATACTT GCCGGCTTCT TAC	5,3
40 .	(2) INFORMATION FOR SEQ ID NO: 3412: (i) SEQUENCE CHARACTERISTICS:	-
40	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3412:	
	TAGCCGATGG AACCCCATAA CGGTTGCCCT ATAAAAGTAT TGTTTTTGTA TAGTGCTAAA	60
50	TCA	63
	(2) INFORMATION FOR SEQ ID NO: 3413:	

5	(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
3		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3413:	
10	ACTACCATTG CTTGTTCCGG TTTCACAACT GGTTCAGTAT CATTTACAAC TGC	53
	(2) INFORMATION FOR SEQ ID NO: 3414:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3414:	
	ATGCTGTTGT AAACGGTAAT ACAACATACC TGCCCAACCC GGTAACGCCA AAAAATGTCC	60
	TT	62
25	(2) INFORMATION FOR SEQ ID NO: 3415:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3415:	
	ACTTAGATCA ATCACATGAT GCCTCACGGA ATCCATTATT TGAAGGTCAT GTTAG	55
	(2) INFORMATION FOR SEQ ID NO: 3416:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3416:	
	TTAGTTCCAG CAATACCTGC TACAGTTGCT GCAGATGCTT CTTTCACCCA TGG	53
50	(2) INFORMATION FOR SEQ ID NO: 3417:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
55		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	40	
	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 3417:
-	TGATTTAGGT GCAAAAATTG TAGGTATCGC TGAG	GCTTAC_GGTGCATTAC_ACGATCCAA59
10	(2) INFORMATION FOR SEQ ID NO: 3418:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ II	D NO: 3418:
20	CGTGGTCACC ATCACCAATT GCTCGATCTA ATTCA	AGTAAT TCAGATTCAT GTT 53
	(2) INFORMATION FOR SEQ ID NO: 3419:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ II	O NO: 3419:
	TGGACCTACT GCAATAACTG AACGTCCTGA ATAGT	CCAACA CGTTTACCAG TAAGT 55
35	(2) INFORMATION FOR SEQ ID NO: 3420:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID	NO: 3420:
45	TGTCTCCGGT ACCGTTTGCA CCAGGAATAA AGATG	,
	(2) INFORMATION FOR SEQ ID NO: 3421:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 3421:	
	AAATTAAGAA AATTCATTGC CAGATAATTT AGATAAATAA TTAAAACTTA GACCATTCAC	60
5	CCCAATCCCT GA	72
	(2) INFORMATION FOR SEQ ID NO: 3422:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3422:	
	CATATGTTAA ATGGACTCGC TAGATTTAAG TCGCAATAGT AGCGGCCGTT TCTT	54
20	(2) INFORMATION FOR SEQ ID NO: 3423:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3423:	
	CACGTTTCAA ACCTAAAAGA TGCTAAAAAT TTCTCTTAAT TCTTGTGCAA TA	52
-	(2) INFORMATION FOR SEQ ID NO: 3424:	:.
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3424:	
	ATCGCCTAAC CAAGATGCAC CATCGGTGAT TTTATCGCCT GCCGCTTCAA CCAT	54
45	(2) INFORMATION FOR SEQ ID NO: 3425:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AATAGAAAAT GTACGTAGCG GTATGATGAG GAT	TTCGCAG ACTAGTTTAG GGTCAAGTG	59
	(2) INFORMATION FOR SEQ ID NO: 3426:		
<i>5</i>	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 52 base pairs		
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	anganan (ring, namujur ingga ringa). Arindan namundur namundur (ring arindan namun namun manan sagana parana. T	
10	(b) forchogi: linear		
	Sign the series of the series	in the second of	
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 3426:	,
15	CCAACGCCAG ATCCAGAACC AAGTCCAGAC CCAC	SAACCGG AACCAAGCCC AG	52
٠	(2) INFORMATION FOR SEQ ID NO: 3427:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 52 base pairs		÷
20	(B) TYPE: nucleic acid	*	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
	•		
25	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 3427:	
	CCATATTAAT GGTTATGTTT ATGTGAATGC TTGC	TTGCTG GACTTGTCTT TT	52
30	(2) INFORMATION FOR SEQ ID NO: 3428:		
•	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 52 base pairs		*
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double	•	
35	(D) TOPOLOGY: linear		
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 3428:	٠.
40	TAAAACAGAG ATTGATACTG CAGAAGATAA CTGT	ATCTCT CCATCTACTG TA	52
	(0) TURORUMETON DOR COM		
•	(2) INFORMATION FOR SEQ ID NO: 3429:		
	(i) SEQUENCE CHARACTERISTICS:		7
	(A) LENGTH: 52 base pairs	* *	,
45	(B) TYPE: nucleic acid	***	
A -	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
50		0.0	
50	(xi) SEQUENCE DESCRIPTION: SEQ I	D NO: 3429:	
	TCAAAATCCA CAACTCCCAC CDACAACTCC)))))))))))))))))))	
	TGAAAATCCA CAAGTCGCAC GTACAGTGTT TGAA	AAAGGT ATTATGGCGG CA	52

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3430:	
	ATAATTCTTC CAAATATATG AAAATGGATT TGTTCTTTTT TTATAAAAAT CTTATGCTTT	60
	TTAACTAATT GTAAGA	76
15	(2) INFORMATION FOR SEQ ID NO: 3431:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriately and the No. 2421	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3431:	
	CTGCGGGGGA TAACTGTATC TCTCCATCTA CTGGTAAGTC GTATTAGAAC TAAAGCGGCT	60
	(2) INFORMATION FOR SEQ ID NO: 3432:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3432:	,
	GGCTTCAGGC TCATTGATAG GTAAAAGTTG CAAAGCCTGC AAAGCGATTG GG	52
40	(2) INFORMATION FOR SEQ ID NO: 3433:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3433:	
50	TCGCACGATA CGCCTCCGAA TGAAGAAGGT TTATTGTGCG ATTCTTTTAT TGTTAAATTT	60
	TAAATTTTT	69

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
· ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3434:	
10	GATCGCTATC CATTAGCTAA ATTTAAACGT TCAAACTCAG GTACATGTTA C	51
	(2) INFORMATION FOR SEQ ID NO: 3435:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3435:	
	TATAGCTACT GCTGCAGCTG CGGCCATTGC AGATGCTGAA CCAACTTCAG C	51
25	(2) INFORMATION FOR SEQ ID NO: 3436:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3436:	
35	ATTAAAGCCA ACATTAATTT ATCCACTATT AACAATAACG GCTACAGGCT TATTAATGAT	60
	TTATACCTTT	70
40	(2) INFORMATION FOR SEQ ID NO: 3437:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3437:	
50	TTTGTTTGTT GATTCTTCTC CACCTGTTTC AGGTAGTTCA GATTTCTTAG A	51
	(2) INFORMATION FOR SEQ ID NO: 3438:	

Š	(A) LENGTH: 51 bas pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3438:	-
10	GTGAATTCCG TAATTACATT TTAGGCTTGA TTTTCTATCG CTTCTTATCT G	51
	(2) INFORMATION FOR SEQ ID NO: 3439:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) lorobodi: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3439:	
	TTAAGACAGG TTCCTTATGG GACTCTAACA ACGTATGGTG CTATTGCCAA A	51
25	(2) INFORMATION FOR SEQ ID NO: 3440:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-,		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3440:	
35	CACTAGAAGA AACGGATTCA TCAGCTATTG GTATCGATTA CCATACTGCT GTGGA	55
	(2) INFORMATION FOR SEQ ID NO: 3441:	
40 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3441:	
	CTTCTGGCAA TAGACCGCGA GTTACTGGGG GCAAAACCAG TGTGTAAAAC CGGAACTACT	60
50	ATGAGGGGCA TGAAAGT	77
	(2) INFORMATION FOR SEQ ID NO: 3442:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3442:	
	GTTCGGTTGT GACAGTCAGT GGACGCGTTA CCAAATGGGC GGGAATTAAA GCAAA	55
10	(2) INFORMATION FOR SEQ ID NO: 3443:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3443:	
. 20	ATGAACTTTG GGATAAAGGT GATGCCCAAA CTTTCCGTAA CTCATGATGA T	51
	(2) INFORMATION FOR SEQ ID NO: 3444:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3444:	
	CAACGCAGCA AAGCGGAGTG GCCCTTTACC TTCACAGAAT AATGGTCTAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 3445:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3445:	
45	ACCGAGCAGC GCACTAAACC TGCAGTACCT TTATCGCTTC TAGATAATCC	50
	(2) INFORMATION FOR SEQ ID NO: 3446:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3446:	
_	CCAATGCAAC GATCCAGTTA TTGTGTTGGC GCAATTGATT AATAGTATTC	50
5	(2) INFORMATION FOR SEQ ID NO: 3447:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3447:	
	GCGCATCATA TCCCATTGCA CCGATAAGAT CCTTCTTACC TTCTACAAGT	50
	(2) INFORMATION FOR SEQ ID NO: 3448:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) TopoLogi: Timear	
	(with applicable properties and the volume of the control of the c	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3448:	
30	GTTCTTACTT CTTTATCGTG GCTCCAACGT GCTCTGTACA TTTTTTCCCA TCTCTCTACT	60
	(2) INFORMATION FOR SEQ ID NO: 3449:	
<i>35</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	3
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3449:	
	CAACACCACC GACACCAGAA GTACCAAGCG AGCCGGAAAC ACCAACACCG	50
45	(2) INFORMATION FOR SEQ ID NO: 3450:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(b) Toronoot. IIncul	
	(with charmed prechipation, can in No. 2450.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3450:	
EE		

	TTATCACGGT ATATGAGGG ATTTGAGG	88
	(2) INFORMATION FOR SEQ ID NO: 3451:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	a single and a single section of the	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3451:	
15	TGCAAAACGT TATGAAGTAC AAGTTGATGG AAGCAACAAA GTAAGTGCGn	50
	(2) INFORMATION FOR SEQ ID NO: 3452:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3452:	•
	CAGTTAAGTC ACCAGCTATT GCGTTTGGTG ATCTTAAGCA GGCGTGGATT ATCAAGTTTG	60
	GGTA	64
30	(2) INFORMATION FOR SEQ ID NO: 3453:	04
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs (B) TYPE: nucleic acid	8
35	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3453:	
	TCGTAAACAA TATACTATCT CAACATTTAT TCATCCAATG GAGATAACGT ATTGCGCGGT	60
	TTAACAGGTA ATTTAAACCA AATACGGTAG TAATNATTAA TAGATAGCAA ATCAAGTATA	120
45	AAGAATAAGT A	131
•	(2) INFORMATION FOR SEQ ID NO: 3454:	-
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3454:	
5	TTAAAAATGC AGTTATGGCC TCTAAAATCG TATTAAGCAT ATTAGCGCCC	50
	(2) INFORMATION FOR SEQ ID NO: 3455:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3455:	
	TGCTACATGG CGTTACGGTC AAGATCGTCA ACGATTGATG GGTACAATTG A	51
	(2) INFORMATION FOR SEQ ID NO: 3456:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	AND CROWNING PROCESSING TO TO VO. 2456	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3456:	
30	ACAAACTGCC AACGATTGGT CGTGTGAATC ATCCAGTGGA AGAAGCGCAn (2) INFORMATION FOR SEQ ID NO: 3457:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3457:	
	AATCACGTGA GAAGGATACA GCTATTAGTA TCGGTATCAT CGCATTGATT	50
	(2) INFORMATION FOR SEQ ID NO: 3458:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3458:	

(2) INFORMATION FOR SEQ ID NO: 3459:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10			
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 3459:	-
	GGGCCAACAA ATCGGAAACT GCCAATTGGA CGG	TTGCCGT CATCAAACCC	5
15	(2) INFORMATION FOR SEQ ID NO: 3460:		
. 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(D) TOPOROGI: Timear		
	e e	***	
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 3460:	
,25	TGCTTCCGCT AGAGGATCCG GTATTGCTAG TCA	ATTACTA CACCATTTAA ATTGTGGAAG	60
: .	CAAAAGCT		5 8
30	(2) INFORMATION FOR SEQ ID NO: 3461:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid		
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ	ID NO: 3461:	
40	TGGTCTTCGC AATCCACGGA TATACCTTAG TAC	CAGGTAA TTGACCACCT T	51
	(2) INFORMATION FOR SEQ ID NO: 3462:		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
50			
	(xi) SEQUENCE DESCRIPTION: SEQ 1		

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3463:	
	ATACCAAATG TGAGAAACTG GAGCAGCAAN TTCAATGTGA CCCATTCTTT	50
	(2) INFORMATION FOR SEQ ID NO: 3464:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3464:	
25	TCTTTACGGC GTGGTTCTAA TCGCATCTTT TTCAATCTAA GTGCGTTTnT	50
23	(2) INFORMATION FOR SEQ ID NO: 3465:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3465:	
	AAAGAAGATT GGAACGTGTA TTGACGACTG CACCCAGGTA TGGGTGTTCG CCCGACA	57
40	(2) INFORMATION FOR SEQ ID NO: 3466:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 63 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3466:	
50	ACATCCGAAA GATGACTTGT TTAAAAAAGC AGAGCATGAT TTGCTTACTA TGATTACACG	60
	CGG	63
	(2) INFORMATION FOR SEO ID NO: 3467:	

5	(A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ-ID-NO: 3467:
10	TACCGATGAT TTCCGAGACA TAGACCGGCC TGTCTGGGGG TCAACTGGAA CTTGGTC 57
	(2) INFORMATION FOR SEQ ID NO: 3468:
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear
20	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3468:
	TGTTCCTAAT ATTTATGTTG TAAAAATGTA CAATCTAATT AAAGCAATAG TCTTGGGCA 59
25	(2) INFORMATION FOR SEQ ID NO: 3469:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid
<i>30</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3469:
	TCCATGATCG TTCAACATTT AAATACACAA CTTAATAAGT ATCGTGTACA AGTTATG 57
	(2) INFORMATION FOR SEQ ID NO: 3470:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear
45	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3470:
50	CCCTGTTCAG GCTATCCTCT AAAGTGACGA TATAGAATAG CGATTAATAT CGCGATAGT 59
	(2) INFORMATION FOR SEQ ID NO: 3471:
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3471:	
5	TACGCCATCA nCGCCAGCTA ATCCGATTGC GACACCTAAT GCGAAATCAT	50
	(2) INFORMATION FOR SEQ ID NO: 3472:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3472:	
	AACGTCATCA AATGGAAGTA CGTGACGTTC ACTACTCTCA CTATGGCCGT ATGT	54
20	(2) INFORMATION FOR SEQ ID NO: 3473:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3473:	
30	TAATAGGCAT TCCCATTAGG TGCGTCGACA ACTGCAACGC AAGCATTTGA AACAGA	56
	(2) INFORMATION FOR SEQ ID NO: 3474:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3474:	•
	TTTTAAGAAT GTCGCGTTAT CTGCGCCCAT TGGATTGACA TACTTCATAC GTATA	55
45	(2) INFORMATION FOR SEQ ID NO: 3475:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GCCTTTAGGT AAAATGGGCA GAAATGCTAA TCATTTTGGC GGCGAAATGA AAAA	54
	(2) INFORMATION FOR SEQ ID NO: 3476:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	ř
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Topology: Tinear	
· ·10		
_		e 1.1
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3476:	
15	AAAnCATTCG CAATCGACCA TAATTTTTTA TGTAATTCAG CTTGTTGCTG	50
	(2) INFORMATION FOR CEO ID NO. 2477	
	(2) INFORMATION FOR SEQ ID NO: 3477:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 50 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3477:	
	003-03-003-0	
	GGANGACCAT TAATCGATAT CGGTACACAC GCTTTAGATT TAACGTTATG	50
	(2) INFORMATION FOR SEQ ID NO: 3478:	
30		
	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3478:	
40		
	TGCCTCCTTA CGCCATGATG CTTATTCAAA GTAAATTGCT TTGCCGGACT TTGCAGACTG	60
	(a) Typopyamray pop and to you have	
	(2) INFORMATION FOR SEQ ID NO: 3479:	
	(4) apolymon guana connector	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
*		
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3479:	
•		
	GGTCTTTCAG CTGCTAACGA GTTCCTGTTA CTGTTCATGT CTATCACTTT GCGTTCCCTC	60
55	\cdot	

	(2) INFORMATION FOR SEQ ID NO: 3480:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3480:	
	CAAGTATCAT ATGGACGGCT CGCCCAACAC AAAACAAGnC CAAGCAAAAC	50
15	(2) INFORMATION FOR SEQ ID NO: 3481:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3481:	
20	ATTAAACAAC ATAGCTCGGC TAATCCTTTA AAGCTTTTGA GTTTTTCTGT TGTAGAACAA	60
1.	GA	62
30	(2) INFORMATION FOR SEQ ID NO: 3482:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3482:	
40	TGTGGCTAGC TGTTTCTTTT TTAGGTGCTG TGTAGGAGAT GAACTGATCG T	. 51
	(2) INFORMATION FOR SEQ ID NO: 3483:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3483:	
	GCAGTTTATA AGTAGAGAGA CAGCTGATCA TGAGATAAAA ATGGGTAAAT ATTT	54

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
or against agents of Sage a	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3484:	Trouble qui 15 di soni indicantino di 100 so
10	TTATCTATCA CAGTACGAAT CCCCCAGAGT ACCGATTGTG ACAGCAACTT CTGCG	55
	(2) INFORMATION FOR SEQ ID NO: 3485:	33 ,
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3485:	
25	ATCTCTGGTT CGATTCCCGT CGAGACCGGC ATCATTACAT GTTTATTATG GG (2) INFORMATION FOR SEQ ID NO: 3486:	52
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3486:	
-	TGTGTCACGA TAATAGGCGT AATATCACTC TTTGGCATGA TTGCCGGATG	50
	(2) INFORMATION FOR SEQ ID NO: 3487:	-
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3487:	
50	TATTTTGAT CACACTCAAC GCACAAACGA ATGGCCTTTA CCTTCACAGA ATAATGGTCT	60
50	AATGTAA	67
	(2) INFORMATION FOR SEQ ID NO: 3488:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3488:	
10	TAGGTGGTCA ATTACCTGGT ACTAGGTATA TCCGTGGATT GCGAGGACAA	. 50
	(2) INFORMATION FOR SEQ ID NO: 3489:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3489:	
	CAATTGTACT TCATAACGTT TTGCATTTCG CCACCTTCAC CACTATATTT TCCCATGGTC	60
25	(2) INFORMATION FOR SEQ ID NO: 3490:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3490:	
	CTAAACTGAT TGTTTTACGT AACGTTTCAT CGGCTTCTTT CGCTTCTATC	50
	(2) INFORMATION FOR SEQ ID NO: 3491:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3491:	
	TCGATTTACC TTTCATCATT GAAGAAGATC GCCATGACTA TACAATCAAT AT	52
50	(2) INFORMATION FOR SEQ ID NO: 3492:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3492:	•
5	AACCTTTTCA CAAATATCAT ATAACTCTTC TAATGGGATA ATCTCTTCAT GT	52
•	(2) INFORMATION FOR SEQ ID NO: 3493:	
line and the end of the end of	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	• •
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3493:	
	GGTTTTAAAC CGTCACGAAC ATCTGGCAAT GCACGAGCAA CGTACATACG TATCTAAAGT	60
20	TACGCTT	67
20	(2) INFORMATION FOR SEQ ID NO: 3494:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3494:	
	TACGTTATGT TATGTAAATA ACAGTTAATT ATACCGGTGG TCTGGGTCGA	50
	(2) INFORMATION FOR SEQ ID NO: 3495:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Topologi: Tilledi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3495:	
45	CGCTTGTTGT TGTACTTTGG CAGTTCGCGT TGTGGATTGT GCCAGCGCTT TTAAACCGTA	60
	(2) INFORMATION FOR SEQ ID NO: 3496:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3496:	
	GGCACCGGCT TCTCTATTGC TTCTTTAGCA TATCTGCAGC TCTCTCAAGG GACATG	56
5	(2) INFORMATION FOR SEQ ID NO: 3497:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3497:	
	CACCTTTAGG ATACGCGTCT AACCACTGTG TCGCGTCTCT ATATATCGCT AAACACGTA	59
	(2) INFORMATION FOR SEQ ID NO: 3498:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3498:	
30	AAGTAATATC TGAATGCGTA TATTGTCTAA TTTCAAATTC TACAGACATC GACGT	55
	(2) INFORMATION FOR SEQ ID NO: 3499:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3499:	
	ANTGTACACG TCCATCTTCA CATGACAACA ACGATATTTT GACCATCACA	. 50
45	(2) INFORMATION FOR SEQ ID NO: 3500:	٠
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3500:	
E E		

*	(2) INFORMATION FOR SEQ ID NO: 3501:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•
ne remove paper	(D) TOPOLOGY: linear	and offering transmission in
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3501:	
	TGTGTGCCTT TAAGTTGTTG ATGACACGCA TTCACGACAA CAGACATGAC AC	52
15	(2) INFORMATION FOR SEQ ID NO: 3502:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
		`
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3502:	
	CTGGCTTCAA TGGCAACTTC TGTACCTGGT ACCAATGGGC GATGACCGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3503:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3503:	
40	TGTCCGACTT GGCGGNATCG TAATTTAGCG CNTGTAATTC TAAAGGGACC	50
40	(2) INFORMATION FOR SEQ ID NO: 3504:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3504:	
	AACCTTCATA TTGCTTCTAA TAAGAAACCG AGCAGCGCAC CAAACCTGGC AGTACCTTTA	60
	TCGC	64
		Ų- T

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3505:	
	TATTGATGTT GAAAACTGTT ATGTCCTTTC GATGGGCCAA CACHAANATA	50
	(2) INFORMATION FOR SEQ ID NO: 3506:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3506:	
	GAATATGGTA TCAATGGTAT GCACTAAGGC TTTATGAAAT TCATTTAAAA T	51
25	(2) INFORMATION FOR SEQ ID NO: 3507:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3507:	
	CGGTTTTAAT CGGTAAATTA AATATGGATG AGTTTGCAAT GGTGTTCACA GAACATCTAT	60
	TTAA	64
40	(2) INFORMATION FOR SEQ ID NO: 3508:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3508:	
	CAAGGCCTTG TTTTTAAAGC AGCTACAGTT GGCAATATGT CCACTCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 3509:	*

	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
. 5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO	: 3509:	
10	CAGATGCAAA TTGACATGGT CATCAACATC nGTnCATTA	AA AAGATGGACG	5
	(2) INFORMATION FOR SEQ ID NO: 3510:	· · · · · · · · · · · · · · · · · · ·	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3510:	
	ACAAGAGGGT CACCCAGCTC GGTCGATTCC CACCGCCAC	A TCATGATATT TATTCATAGA	. 60
25	GTTTACGCAC TGTACATGAT TGAATGCGAT AAAG (2) INFORMATION FOR SEQ ID NO: 3511:		94
			* •
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3511:	
	ACTCAACAAT GGATATTCTT ACACTGAAAA ATGGGTAAT	G GTGCAAACAT AGTA	54
	(2) INFORMATION FOR SEQ ID NO: 3512:		
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
45	(D) TOPOLOGY: linear		
-			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3512:	•
50	CCGGATGCAC ATTTGATGAC TGAAGTCCGC GATAAAGGG	A CAAnAGTCAn	50
	(2) INFORMATION FOR SEQ ID NO: 3513:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs		
55		•	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3513:	
	GCATTAAATT GAAACAATCG GATTTACAAT TTTCTCTTAA TGCTGTCGTC TACACAGC	58
10	(2) INFORMATION FOR SEQ ID NO: 3514:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3514:	
20	GTGTTCGTGT TCATGCAAGG TGAATGCGAG TGATCTGTTG GTATGGGCTT TATGCATGGC	60
	AATCTG	66
25	(2) INFORMATION FOR SEQ ID NO: 3515:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3515:	
33	ATGCCACTGA TAATGCnnCT GAACTTATTG ATGACTTCTC ATTAGACTAT	50
	(2) INFORMATION FOR SEQ ID NO: 3516:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3516:	4
	CGGCGACAAA GAGTAAACAC AGCGGAGGGA CAAAGCCCGC GACTAGCAAC	50
50	(2) INFORMATION FOR SEQ ID NO: 3517:	-
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3517:	
5	ATGCCTATGT AGCACCGAGT ACCGATACCG AACACTTAGC TACGCCAGTT C	51,
	(2) INFORMATION FOR SEQ ID NO: 3518:	
	(i) SEQUENCE CHARACTERISTICS:	
.:.	(A) LENGTH: 50 base pairs	
10	(B) TYPE: nucleic acid	٠
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3518:	
	GAGCATHAAG GTGATTTHGA TCGCTATCCG TTAGCTAAAT TTAAACGTTC	50
20.	(2) INFORMATION FOR SEQ ID NO: 3519:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
		*
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3519:	
30	GATTGGTATT TAGCTTTAAA TTTATGGTTG GAATAGTAGG TGGCATATAT CGCTGTTAGT	-
	The state of the s	60
	ATCG	64.
	(2) INFORMATION FOR SEQ ID NO: 3520:	,
35	(2) INFORMATION FOR SEQ ID NO: 3520:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(vi) SEQUENCE DESCRIPTION OF TO VO. 2500	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3520:	
45	TCTTCAATCT CAGGGGCATC TACTAACATA TCATCCAGTC AATATTGCGT CACATTGTTA	60
	The state of the s	60
	ATCGGTTCCG ATC	73
	(2) INFORMATION FOR SEQ ID NO: 3521:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	·	
55		

	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3521:	
5	TCAAATTGGC AATTGGTACG AATGTCGACT GTACTAACAT CATTAGCTCA TGATTGCCAG	60
	GTGATTTCAT GGATG	75
	(2) INFORMATION FOR SEQ ID NO: 3522:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3522:	
	TTCCAATGGG CTTCTGACTT TGGCGGTTTT AGTGCTTGGG TTGCCGGCGG TTTTGGA	57
20	(2) INFORMATION FOR SEQ ID NO: 3523:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toroboot. Timear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3523:	-
	TGGTGGAGGT TTTGTTTTT CCGTGTCGGT TTTTGTTTTC GTCTTGGTTT CTTTTGTTTT	60
	TGTGTTCTCT TT	72
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 3524:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3524:	
45	ATATCACAAT ATACCGGTTT ATATGCTGTC TAATCATAGT TGAATAGTGA C	51
	(2) INFORMATION FOR SEQ ID NO: 3525:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3525:

<i>5</i>	TAGACCGTCG TGGATAGTTT TGGGTACGGT AACCAATTTA TTTTGAAGAG ACCATCCTC 59
9.	(2) INFORMATION FOR SEQ ID NO: 3526:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
	to to the second
. 15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3526:
	TAATAACGTT GCCCTCCCAT GTATATCCTA CCAACATGAC ATCTTGTACA 50
20	(2) INFORMATION FOR SEQ ID NO: 3527:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
25	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3527:
30	TTCCCAACGA GCAGTCGCAT GCGGTACTGC CACGGCATTT TGATGCAGGC CT 52
	(2) INFORMATION FOR SEQ ID NO: 3528:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3528:
45	AAAGAAAnGA ThGhnnGhnn Ghanaaannn nhCCAThnnn hTAAAAAAAA 50 (2) INFORMATION FOR SEQ ID NO: 3529:
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

	CATTAGCCTC ATCCCCTTCG TTTAGACTCG CTATAGATGC ACTAAATGGC GATATATTTT	60
	TC	62
5	(2) INFORMATION FOR SEQ ID NO: 3530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3530:	
	CACTACCACA AAAATTATAG GTGTTGACCT TCAGGnGCAA GTAGTATGAT	50
	(2) INFORMATION FOR SEQ ID NO: 3531:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3531:	
<i>30</i>	GAATGCAAAA TCCATTTGTA AGGANATCGA ATGGTTTAGT ANCTCGTGCA	50
	(2) INFORMATION FOR SEQ ID NO: 3532:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3532:	
	GGTAGANCNC TGTTTAGTAC TAGGGGCCCC TCTCGGGTTA CCAATTCAGA	50
		23
45 50	(2) INFORMATION FOR SEQ ID NO: 3533: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3533:	
E E	•	

(2) INFORMATION FOR SEQ ID NO: 3534:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3534:	
	CGTCAACGAT GTAAAGTAAA GCCTTGTCCA GTTTAATTTA CGAGTGGCGT AA	52
15	(2) INFORMATION FOR SEQ ID NO: 3535:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3535:	
	TTAATCCAGA AGTACCGGTG GATTTAGTTA TTGACCACTC AGTTCAAGTG GATAGCTA	TG 60
	CAAATCCAGA AGCTCTTGAA CGTAATATGA AATTAGAATT TGAACGTAAC TATGAACG	TT 120
30	ATCAGTTTT AAATTGGGCA ACGAAAGCAT TTGATAATTA CAATGCAGTT CCTCCTGC	AA -180
	CTGGAATAGT TCACCAAGTT AACTTAGAAT ATTTAGCAAG TGTTGTACAT GTTCGTGA	TG 240
	TAGATGGTGA AAAAACTGCA TTTCCAGATA CATTAGTTGG TACTGATTCA CATACAAC	AA . 300
35	TGATAAATGG TATTGGCGTA CTAGGATGGG GTGTTGGTGG TATTGAAGCT GAAGCTGG	AA 360
	TGCTTGGACA ACCTTCTTAT TTCCCAATTC CAGAGGTTAT	4,00
	(2) INFORMATION FOR SEQ ID NO: 3536:	,
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1118 base pairs	*
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3536:	
50	CGTATAGAGT GTCCTACAAC CCCAACAAGC AAGCTTGTTG GTTTGGGCTC TTCCCGTT	TC 60
	GCTCGCCGCT ACTAAGGGAA TCGAATTTTC TTTCTCTTCC TCCGGGTACT AAGATGTT	TC 120
	AGTTCTCCGG GTGTGCCTTC TGATATGCTA TGTATTCACA TATCGATAAC ATGACATA	AC 180

	GCATATCGTC GTTAGTAACG TCCTTCATCG GCTTCTAGTG CCAAGGCATC CACCGTGCGC	30
	CCTTAATAAC TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGCTCA CATACGGCTT	36
5	CGTTTTCATT ATTTTAAATG CTCATTTACA TAAGTAAACT CTGCTTTAAA ATAATTTAAC	42
	TCATTGTCTG CTAAACGTTT TCTTTTATAA AAAGATTTAA ACGCGTTATT AATCTTGTGA	48
10	GTGTTCTTTC GAACACTAGC GATTATTTCT TATGAATTCA AGCTTATTTA AAACTCTTTA	54
70	TTCACTCGGT TTTGCTTGGT AAAATCTATA TTTTACTTAC TTATCTAGTT TTCAATGTAC	600
	AATTTCTTTT TAGTCAAGCG CTCGCATACT GCTTTATTTT CAAAAAATCA AATGCTCATT	660
15	TACAAAAGTA AACTCCGCTT TAATTTTTCT TAATGCATTG TCTAACAACC GCTTTCTTTA	720
	AAAAGAATAG ATTGTCAAGC GCTCGCATAA GCAATATCAC TTTAACCAAA AAATATTTGA	780
	ATGTTAAATA AACATTCAAA ACTGAATACA ÄTATGTCACG TTATTCCGCA TCTTCTGAAG	840
20	AAGATGTTCC GAATATATCC TTAGAAAGGA GGTGATCCAG CCGCACCTTC CGATACGGCT	900
	ACCITGITAC GACTICACCC CAATCATITG TCCCACCITC GACGGCTAGC TCCTAAAAGG	960
	TTACTCCACC GGCTTCGGGT GTTACAAACT CTCGTGGTGT GACGGGGGGT GTGTACAAGA	1020
25	CCCGGGAACG TATTCACCGT AGCATGCTGA TCTACGATTA CTAGCGETCC AGCTTCATGT	1080
	AGTCGAGTGC AGACTACCAT CCGGACTGNG GACCAACT	1118
30	(2) INFORMATION FOR SEQ ID NO: 3537:	<u>.</u>
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 424 base pairs (B) TYPE: nucleic acid	٠,
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	, die, ,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3537:	
40	GGGGATCCCC AGCCAGAAGA TTTATTCAGT GCGATGATTC GTGAAATTGA AACGCAAGAT	60
	TTCGATATCG AACACCTGGC GACGGCAATT CGTAAMGTTG AAACATCAAC ATTAGGTGAA	120
	GAAAGTGAAA ATGACTTTAT CGGTCTGTTC AGCGATATGG ATTTGAGTTC AACGCGACTA	180
15	GGTAACAATG TCAAAGAACG TACTGCTTTA ATCTCTAAAG TCATGGTTAA TCTTGACGAC	240
	TTACCATTCG TTCACAGTGA CATGGAAATT GATATGTTAG GTGATGCATA TGAATTCCTA	300
50	ATTGGGCGCT TTGnGCGACA CGGGTAAAAA AAGCAGGCGA GTTCTATACA CCACAACAAG	360
	TATCTAAGAT ACTGGCGANG ATTGTCACAG ACGGTAAAGA TAAATTACGT CACGTGTATG	420

2573

424

ACCC

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* * *	20 20	
		*		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3538:	- No. 10.10 March 1 (1000 March 1000 March 1	
	ATCTCATATG TTAAAAGGTA AACAAGGTCG TTTCCGTCAA	AACTTACTTG	GTAAACGTGT	60
	TGACTATTCA GGACGTTCAG TTATTGCAGT AGGTCCAAGC	TTGAAAATGT	ACCAATGTGG	120
15	TTTACCAAAA GAAATGGCAC TTGAACTATT TAAACCATTC	GTAATGAAAG	AATTAGTTCA	180
	ACGTGAAATT GCAACTAACA TTAAAAATGC GAAGAGTAAA	ATCGAACGTA	TGGATGATGA	240
	AGTTTGGGAC GTATTGGAAG AAGTAATTAG AGAACATCCT	GTATTACTTA	ACCGTGCACC	300
20	AACACTTCAT AGACTTGGTA TTCAAGCATT TGAACCAACT	TTAGTTGAAA	GGTCGTGCGA	360
	TTCGTCTACA TCCACTTGTA ACAACAGCTT ATAACGCTGA	3		400
25	(2) INFORMATION FOR SEQ ID NO: 3539:			
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1171 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	*		
30	(D) TOPOLOGY: linear			
		14.		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3	3539:		
35	AATAAGTAAG TTATTTTGTC TGGTGACTAT AGCAAGGAGG	TCACACCTGT	TCCCATGCCG	60
	AACACAGAAG TTAAGCTCCT TAGCGTCGAT GGTAGTCGAA	CTTACGTTCC	GCTAGAGTAG	120
40	AACGTTGCCA GGCAAATGAC AAATCGGAGA ATTAGCTCAG	CTGGGAGAGC	ATCTGCCTTA	180
40	CAAGCAGAGG GTCGGCGGTT CGAACCCGTC ATTCTCCACC	ATTTATTCTT	AGATATAGCC	240
	GGCCTAGCTC AATTGGTAGA GCAACTGACT TGTAATCAGT	AGGTTGGGGG	TTCAAGTCCT	300
45	CTGGCCGGCA CCATCTTTTG AGCCATTAGC TCAGCTGGTA	GAGCATCTGA	CTTTTAATCA	360
	GAGGGTCAGA GGTTCGAATC CTCTATGGCT CATTACGATT	TAATTTTTAT	ATTTAGCAAA	420
	ATAATGCAGA AGTAGTTCAG CGGTAGAATA CAACCTTGCC	AAGGTTGGGG	TCGCGGGTTC	480
50	GAATCCCGTC TTCTGCTCCA TTATTTTGCC GGGGTGGCGG	AACTGGCAGA	CGCACAGGAC	540
	TTAAAATCCT GCGGTGAGAG ATCACCGTAC CGGTTCGATT	CCGGTCCTCG	GCACCATTTT	600
	AGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA	TCAAGAGGTT	ATGGGTTCGA	660
55				

	GAGCACTTGG TTTGGGACCA AGGGGTCGCA GGTTCGAATC CTGTCTTCCC GATTACTTCT	780
	TAAATTCCAT TTTATGGGGG CTTAGCTCAG CTGGGAGAGC GCCTGCTTTG CACGCAGGAG	840
5	GTCAGCGGTT CGATCCCGCT AGTCTCCACC ATTTATTTTT TACACGATGA ACATTGAAAA	900
	CTGAATGACA ATATGTCAAC GTTAATTCCA AAAAACGTAA CTATAAGTTA CAAACATTAT	960
10	TTAGTATITA TGAGCTAATC AAACATCATA ATTTTTATGG AGAGTTTGAT CCTGGCTCAG	1020
	GATGAACGCT GGCGGCGTGC CTAATACATG CAAGTCGAGC GAACGGACGA GAAGCTTGCT	1080
	TCTCTGaTGT TAGCGGCGGA CGGGTGAGTA ACACGTGGGA TAACCTACCT ATAAGACTGG	1140
15	GATAACTTCG GGAAACCGGA GCTAATACCG G	1171
	(2) INFORMATION FOR SEQ ID NO: 3540:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 601 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
?5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3540:	
	CTCGGCAGTG TGAAATCAAC GACTCGAAGA CACAATGTCT TCTCCCCATC ACAGCTCAGC	60
30	CTTAACGAGT ACCGGATTTG CCTAATACTC AGCCTTACTG CTTAGACGTG CAATCCAATC	120
		•
	GCACGCTTCG CCTATCCTAC TGCGTCCCCC CATCGATTAA AACGATTATA GGTGGTACAG	180
	GCACGCTTCG CCTATCCTAC TGCGTCCCCC CATCGATTAA AACGATTATA GGTGGTACAG GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC	180 240
15		•
15	GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC	240
<i>15</i>	GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC CCAGAGCGGA CGAGCCTTCC TCTGGAAACC TTAGTCAATC GGTGGACGGG ATTCTCACCC	300
es eo	GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC CCAGAGCGGA CGAGCCTTCC TCTGGAAACC TTAGTCAATC GGTGGACGGG ATTCTCACCC GTCTTTCGCT ACTCACACCG GCATTCTCAC tTCTAAGCGC TCCACATGTC CTTACGATCA	240 300 360
	GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC CCAGAGCGGA CGAGCCTTCC TCTGGAAACC TTAGTCAATC GGTGGACGGG ATTCTCACCC GTCTTTCGCT ACTCACACCG GCATTCTCAC tTCTAAGCGC TCCACATGTC CTTACGATCA TGCTTCAACG CCCTTAGAAC GCTCTCCTAC CATTGTCCAA AGGCATWCrC ACAGCTTCGG	300 · · · · · · · · · · · · · · · · · ·
	GAATATCAAC CTGTTATCCA TCGCCTACGC CTGTCGGCCT CAGCTTAGGA CCCGACTAAC CCAGAGCGGA CGAGCCTTCC TCTGGAAACC TTAGTCAATC GGTGGACGGG ATTCTCACCC GTCTTTCGCT ACTCACACCG GCATTCTCAC tTCTAAGCGC TCCACATGTC CTTACGATCA TGCTTCAACG CCCTTAGAAC GCTCTCCTAC CATTGTCCAA AGGCATWCrC ACAGCTTCGG TAATATGTTT AGCCCCGGTA CATTTTCGGC GCAGTGTCAC TCGACTAGTG AGCTATTACG	240 300 360 420 480

(2) INFORMATION FOR SEQ ID NO: 3541:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

55

50

43 V

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3541:

5	GCnAGGACCT	TnCCAAATTT	GAAATCCTTT	GACCACITTI	GGGGTAGAGC	CCTTTCCCnC	60
	GGGGACAAAG	TGACCAGGTG	GTGCATGGTT	GTCGTCAGCT	CGTGTCGTGA	GATGTTGGGT	120
	TAAGTCCCCG	CAACGAGCGC	AACCCTTAAG	CTTAGTTGCC	ATCATTAAGT	TGGGCACTCT	180
10	AAGTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	ACGTCAAATC	ATCATGCCCC	240
	TTATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	AAGGGCAGCG	AAACCGTGAG	300
	nTCAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	AGTCTGCAAC	TCGACTACAT	360
15	GAAGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	GTGAATACGT	TCCCGGGTCT	420
	TGTACACACC	GCCCGTCACA	CCACGAGAGT	TTGTAACACC	CGAAGCCGGT	GGAGTAACCT	480
	TTTAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTGGGG	TGAAGTCGTA	ACAAGGTAGC	540
20	CGTATCGGAA	GGTGCGGCTG	GATCACCTCC	TTTCTAAGGA	TATATTCGGA	ACATCTTCTT	600
	CAGAAGATGC	GGAATAACGT	GACATATTGT	ATTCAGTTTT	GAATGTTTGT	TCATTCAAAT	660
25	TAATGGGCCT	ATAGCTCAGC	TGGTTAGAGC	GCACGCCTGA	TAAGCGTGAG	GTCGGTGGTT	720
	CGAGTCCACT	TAGGCCCACC	ATTAATTTAA	TACCTATTTG	GGGGCTTAGC	TCAGCTGGGA	780
	GAGCGCCTGC	TTTGCACGCA	GGAGGTCAGC	GGTTCGATCC	CGCTAGTCTC	CACCATTATT	840
10	TGTACATTGA	AAACTAGATA	AGTAAGTAAA	ATATAGATTT	TACCAAGCAA	AACCGAGTGA	900
	ATAAAGAGTT	TTAAATAAGC	TTGAATTCAT	AAGAAATAAT	CGCTAGTGTT	CGAAAGAACA	960
	CTCACAAGAT	TAATAACGCG	TTTAAATCTT	TTTATAAAAG	AACGTAACTT	CATGTTAACG	1020
.	TTTGACTTAT	AAAAATGGTG	GAAACATAGA	TTAAGTTATT	AAGGCCCAC	GGTGGATGCC	-1080
	TTGGCACTAG	AAGCCGATGA	AGGACGTTAC	TAACGACGAT	ATGCTTTGGG	GAGCTGTAAG	1140
	TAAGCTTTGA	TCCAGAGATT	TCCGAATGGG	GAAACCCAGC	ATGAGTTATG	TCATGTTATC	1200
0	GATATGTGAA	TACATAGCAT	ATCAGAAGGC	ACACCCGGAG	AACTGAAACA	TCTTAGTACC	1260
	CGGAGGAAGA	GAAAGAAAAT	TCGATTCCCT	TAGTAGCGGC	GAGCGAAATG	G .	1311
	/61						

(2) INFORMATION FOR SEQ ID NO: 3542:

45

50

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3542:

	CGCTAGAGTA GAACGTTGCC AGGCAAATGA CAAATCGGAG AATTAGCTCA GCTGGGAGAG	120
	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	180
5	TAGATATAGC CGGCCTAGCT CAATTGGTAG AGCAACTGAC TTGTAATCAG TAGGTTGGGG	240
-((-	GTTCAAGTCC TCTGGCCGGC ACCATCTTTT GAGCCATTAG CTCAGCTGGT AGAGCATCTG	300
	ACTITIANTE AGAGGITCAG AGGITCGAAT CCTCTATGGC TCATTACGAT TTAATTITTA	360
10	TATTTAGCAA AATAATGCAG AAGTAGTTCA GCGGTAGAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3543:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 804 base pairs (B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3543:	
	GTGAGAGTGA CGTTATGTTA TGTAAATAAC AGTTAATTAT ACCGGTGGTC GGGGTCGAAC	60
25	CGCACTCCAC AAGTGGAAGA GATTTTGAGT CCCGCGCGTC TGCCAATTCC GCCACACCGG	120
	CTTAATGGTA AACAAAAAC TTCCCTTTGG AAGCAATTAT GGAGCGGAAG ATAGGATTTA	180
30	CACCTATACC TCGTTCCGGG aAGGAACtGg TTcTAAAAGT TGAACTACTC CCGCAAATAT	240
	TAAATTATGG AGCGGAAGAT AGGATTTACA CCTATACCTC ATTCCAGGAA GGAATGTATT	300
	CTAAGAGTTG AAATACTCCC GCATTATTAT TAAATTATGG AGCGGAAGAT AGGATTTGCA	360
35	CCTATACCTC GTTCCGGGAA GGACKTGTTL CTAAAAGTTG AACTACTCCC GCATAAACCT	420
	GGAGGCGGCA ACCGGATTTG AACCGGTGAT AAAGGTTTTG CAGACCTCTG CCTTACCACT	480
	TGGCTATGCG CCAATAACTG GGCTAGCTGG ATTCGAACCA ACGAGTGACG GATMAAAGTC	540
40	CGTTGCCTTA CCGCTTGGCT ATAGCCCATT AATAATAAGG GCGGCTGAAG GGGATCGAAC	600
	CCTCGAATGT CGGAACCACA ATCCGATGTG TTAACCACTT CACCACAGCC GCCATGGCAG	660
45	GGGCAGTAGG AATCGAACCC ACACCAAAGT TTTGGAGACC TCTATTCTAC CGTTGAACTA	720
45	TGCCCCTATT aAAAATaaTA ATKGGAGGGG GGCAGATTCG AAnTGCCGAA CCCGAAGGAG	780
	CGGGATTTAC ATTCCGCCGG GTTT	804
50	(2) INFORMATION FOR SEQ ID NO: 3544:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3544:	• -
, e ^e	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
5	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
	TACTITACTC ACCIATIGIT GICGCIGCAA GIGAAACATA TAICGGICIT GITGAAGCAG	180
10	GTGTTGGCTT ATTACCGAGT GGCGGTGGCC TTGCAGAAAT GGCTGATCGC ATATTACGCA	240
	CATCGCATAA GTTTGATKAC AAACAAGCTT CCATGACAAA AGTACTGACG AATATCGCAT	300
	TTGCGAAAGT CTCTACAAAT GCCTTTGAGG CACGTCGTTA TGGTTATTTA CGTGGATACA	360
15	GATACGATTA TTTTCAATAC AGCACAACGT GTCCGAAGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3545:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid	
*	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(with GROVINGE PROGRESSION OF THE NO. 15.15	s!"
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3545:	
ž.	**CCGGCATTCT CACTTCTAAG CGCTCCACAT GTCCTTACGA TCATGCTTCA ACGCCCTTAG	. 60
30	AACGCTCTCC TACCATTGTC CAAAGGNATC nCACAGCTTC GGTAATATGT TTAGCCCCGG	120
	TACATTTTCG GCGCAGTGTC ACTCGACTAG TGAGCTATTA CGCACTCTTT AAATGATGGC	180
	TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCACA TCCTTTTCCA CITAACATAT	.240
35	ATTTTGGGAC CTTAGCTGGT GGTCTGGGCT GTTTCCCTTT CGAACACGGA CCTTATCACC	.300
	CATGTTCTGA CTCCCAAGTT AAATTAATTG GCATTCGGAG TTTGTCTGAA TTCGGTAACC	360
	CGAGAGGGC CCCTCGTCCA AACAGTGGCT CTACCTCCAA TAATCATCAn TTGAGGCTAG	420
40	CCCTAAAGCT AATTCGGAGA GAACCAGTAT CTCCAGTTCG ATTGGAATTC TnCG	474
	(2) INFORMATION FOR SEQ ID NO: 3546:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic-acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3546:

	GCAATTCGTA AAGTTGAAAC ATCAACATTA GGTGAAGAAA GTGAAAATGA CTTTATCGGT	120
	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGACTAGGTA ACAATGTCAA AGAACGTACT	180
5	GCTTTAATCT CTAAAGTCAT GGTTAATCTT GACGACTTAC CATTCGTTCA CAGTGACATG	240
	GAAATTGATA TGTTAGGTGA TGCATATGAA TTCCTAATTG GGCGCTTTGn GCGACACGGG	300
	TAAAAAAAGC AGGCGAGTTC TATACACCAC AACAAGTATC TAAGATACTG GCGAGATTGT	360
10	CACAGACGGT AAAGATAAnT ACGTCACGTG TATGACCCAA	400
	(2) INFORMATION FOR SEQ ID NO: 3547:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3547:	
	AACGTTTCA CTTCGCCAAG CCATTTTCT TTGTGTTTAC TTTTTATTTT GACGTTTTAG	60
25	ACATAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT CGCATCCATT TTTTGCCTGG	120
	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG ACGCTAAGAA CCTTTCTTGA	180
30	CTTGTGACAA TCGCTTGCTT CTTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA	240
•	CTAAACTCGT TGCGCTCTTT TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	300
	CATTTTTCTT TGTGTTTGCT TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG	360
35	CGGTCTCAAT GCGGCTCATC GCATCCAnTT TTTGCCTGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3548:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3548:	
	ATGATGTCGT TGCACAATCA ATTGATAAAT TACATTATAG CTTTAATCGT TTGAAGTATA	60
50	GTTTGAAACC AGTAGTCACA GCTGTTCAAG GTCGTGCCTT AGGCGGTGGC TGTGAGCTTG	120
	TACTTTACTC ACCTATTGTT GTCGCTGCAA GTGAAACATA TATCGGTCTT GTTGAAGCAG	180
	CTCCTTCCCCTT ATTACCCACT CCCCCTCCCC TTCCCACAAAA CCCTTCATCCC ATACTCACAA	240

	TIGCAAAGIC TCTACAAATG CCTTTGAGGC ACGTCGTTAT GGTTATTTAC GTGATACAGA	360
-	TACGATTATT TTCAATACAG CACAACGTGT CCGAAGTTGG	400
5	(2) INFORMATION FOR SEQ ID NO: 3549:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400-base pairs	*
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3549:	. t
	AGGITACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG TGTGACGGGC GGTGTGTACA	60
	AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA TTACTAGCGA TTCCAGCTTC	120
20	ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA CTTTATGGGA TTTGCTTGAC	180
	CTCGCGGTTT CGCTGCCCTT TGTATTGTCC ATTGTAGCAC GTGTGTAGCC CAAATCATAA	240
	GGGGCATGAT GATTTGACGT CATCCCCACC TTCCTCCGGT TTGTCACCGG CAGTCAACTT	300
25	AGAGTGCCCA ACTTAATGAT GGCAACTAAG CTTAAGGGTT GCGCTCGTTG CGGGACTTAA	360
	CCCAACATCT CACGACACGA GCTGACGACA ACCATGCACC	400
	(2) INFORMATION FOR SEQ ID NO: 3550:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3550:	
40	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	60
	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATAATATTT	
-		120
45	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	180
45	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATAG CCGACCTGAG	240
	AGGGTGATCG GCCACACTGG AACTGAGACA CGGTCCAGAC TCCTACGGGA GGCAGCAGTA	300
50	GGGAATCTTC CGCAATGGGC GAAACCTGAC GGAGCAACGC CGCGTGAGTG ATGAAGGTCT	360
	TCGGATCGTA AAACTCTGTT ATTAGGGAAG AACATATGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3551:	

5	(A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3551:	
10	ACAAGGTAGC CGTATCGGAA GGTGCGGCTG GATCACCTCC TTTCTAAGGA TATATTCGGA	60
	ACATCTTCTT CAGAAGATGC GGAATAACGT GACATATTGT ATTCAGTTTT GAATGTTTAT	120
	TTAACATTCA AATATTTTTT GGTTAAAGTG ATATTGCTTA TGCGAGCGCT TGACAATCTA	180
15	TTCTTTTTAA AGAAAGCGGT TGTTAGACAA TGCATTAAGA AAAATTAAAG CGGAGTTTAC	240
	TTTTGTAAAT GAGCATTTGA TTTTTTGAAA ATAAAGCAGT ATGCGAGCGC TTGACTAAAA	300
	AGAAATTGTA CATTGAAAAC TAGATAAGTA AGTBAAATAT AGATTTTACC AAGCAAAACC	360
20	GAGTGAATAA AGAGTTTTAA ATAAGCTTGA ATTCATAAGA aTAATCGCTA GTGTTCGAAA	420
	GAACACTCAC AAGATTAATA ACGCGTTTAA ATCTTTTTAT AAAAGANAAC GTTTAGCAGA	480
25	CAATGAGTTA AATTATTTTA AAGCAG	506
	(2) INFORMATION FOR SEQ ID NO: 3552:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3552:	
	AAGCTGAGGC CGACAGTGGN GCGATGGATA ACAGGTTGAT ATTCCTGTAC CACCTATAAT	60
40	CGTTTTAATC GATGGGGGA CGCATAGGAT AGGCGACGTG TCGATTGGAT TGCACGTCTA	120
	AGCAGTAAGG CTGAGTATTA GGCAAATCCG GTACTCGTTA AGGCTGAGCT GTGATGGGGA	180
	GAAGACATTG TGTCTTCGAG GTCGTTGATT TCACACTGCC GAGAAAAGCC TCTAGATAGA	240
45	AAATAGGTGC CCGTACCGCA AACCGACACA GGTAGTCAAG ATGAGAATTC TAAGGTGAGC	300
٠	GAGCGAACTC TCGTTAAGGA ACTCGGCAAA ATGACCCCGT AACTTCGGGA GAAGGGGTGC	360
	TCTTTAGGGT TAACGCCCAG AAGAGCCGCA GTGAATAGGC CCAAGCGACT GTTTATCAAA	420
50	AACACAGGTC TCTGCTAAAC CGTAAGLGAN TGTATAGGGG CTGACGCCTG CCCGGTGCTG	480
	GAAGGTTAAG AGGAGTGGTT AGCTTCTGCG AACTACGAAT CGAAGCCCCA GTAAACGGCG	540
	GCCGTAACTA TAACGGTCCT AAGGTAGCGA AATTCCTTGT CGGGTAAGTT CCGACCGCA	600

	GTGAAGATGC	AGGTTACCCG	CGACAGGACG	GAAAGACCCC	GTGGAGCTTT	ACTGTAGCCT	720
5	GATATTGAAA	TTCGGCACAG	CTTGTACAGG	ATAGGTAGGA	GCCTTTGAAA	CGTGAGCGCT	780
	AcTTaCgTGG	aggcgctggt	GGGATACTAC	CCTAGCTGTG	TTGGCTTTCT	AACCCGCACC	840
	ACTTATCGTG	GTGGGAGACA	GTGTCAGGCG	GGCAGTTTGA	CTGGGGCGGT	CGCCTCCTAA	900
10	AAGGTAACGG	AGGCGCTCAA	AGGTTCCCTC	AGAATGGTTG	GAAATCATTC	ATAGAGTGTA	960
	AAGGCATAAG	GGAGCTTGAC	TGCGAGACCT	ACAAGTCGAG	CAGGGTCGAA	AGACGGACTT	1020
	AGTGATCCGG	TGGTTCCGCA	TGGAAGGGCC	ATCGCTCAAC	GGATAAAAGC	TACCCCGGG	1080
15	ATAACAGGCT	TATCTCCCCC	AAGAGTTCAC	ATCGACGGG	AGGTTTGGCA	CCTCGATGTC	1140
	GGCTCATCGC	ATCCTGGGGC	TGTAGTCGGT	CCCAAGGGTT	GGGCTGTTCG	CCCATTAAAG	1200
	CGGTACTMGg	CTGGGTTCAG	AACGTCGTGA	GaCAGTTCGG	TCCCTATCCG	TCGTGGGCGT	1260
	AGGAAATTTG	AGAGGAGCTG	TCCTTAGTAC	GAGAGGACCG	GGATGGACAT	ACCTCTGGTG	1320
-	TACCAGTTGT	CGTGCCAACG	cATnAGCTGG	GTAGCTATGT	GTGGACGGGA	TAAGTGCTGA	1380
25	AAcATnCTnA	AGCATGAAGC	CCCCCTCAAG	ATGAGATTTC	CCAACTTCGG	TTATAAGATC	1440
: 5	CCTCAAAGAT	GATGAGGTTA	ATAGGTTCGA	GGTGGAAGCA	TGGTGACATG	TgGGAGCTGA	1500
	CGAATACTAA	TCGATCGAAG	ACTTAATCAA	AATAAATGTT	TTGCGACAAA	tnCaCTTTTA	1560
0	CTTACTATCT	AGTTTTGAAT	GTATAAATTA	CATTCATATG	TCTGGTGACT	ATAGCAAGGA	1620
	GGTCACACCT	GTTCCCATGC	CGAACACAGA	AGTTAAGCTC	CTTAGCGTCG	ATGGTAGTCG	1680
	AACTTACGTT	CCGCTAGAGT	AGAACGTTGC	CAGGCAGTTT	TTTAATCAAA	TTTTGGTTAA	1740
5	AAAATAAAAT	GGACAAGATA	AAAAAGTTA	TTGACTTAAA	TGTTAATAAA	ATGTATAATT	1800
	AATTCTTGTC	GGTAAGAAAA	ATGAACATTG	AAAACTGAAT	GACAATATGT	CAACGTTAAT	1860
	TCCAAAAAAC	GTAACTATAA	GTTACAAACA	TTATTTAGTA	TTTATGAGCT	AATCAAACAT	1920
0	CATAATTTTT	ATGGAGAGTT	TGATCCTGGC	TCAGGATGAA	CGCTGGCGGC	GTGCCTAATA	1980
	CATGCAAGTC	GAGCGAACGG	ACGAGAAGCT	TGCTTCTCTG	ATGTTAGCGG	CGGACGGGTG	2040
	AGTAACACGT	GGATAACCTA	CCTATAAGAC	TGGGATAACT	TCGGGAAACC	GGAGCTAATA	2100
5	CCGGATAATA	TTTTGAACCG	CATGGTTCAA	AAGTGAAAGA	CGGTCTTGCT	GTCACTTATA	2160
	GATGGATCCg	CGCTGCATTA	GCTAGTTGGt	AAGGEAACGG	CTTTACCCA	* .	2209
	*			1 .			•

(2) INFORMATION FOR SEQ ID NO: 3553:

50

55

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 518 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

- ((xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3553:	
5	CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC CGAGTGAATA AAGAGTTTTA	6
	AATAAGCTTG AATTCATAAG AAATAATCGC TAGTGTTCGA AAGAACACTC ACAAGATTAA	120
	TAACGCGTTT CCTGTAGGAT GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC	180
10	CTTGGCACTA GAAGCCGATG AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA	240
	GTAAGCTTTG ATCCAGAGAT TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT	306
15	CGATATGTGA ATACATAGCA TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC	360
	CCGGAGGAAG AGAAAGAAAA TTCGATTCCC TTAGTAGCGG CGAGCGAAAC GGGAAGAGCC	420
	CAAACCAACA AGCTTGCTTG TTGGGGTTGT AGGACACTCT ATACGGAGTT ACAAAGGmCG	480
20	ACATTIGACG AATCATCTGG GAAAGWTGAT CCAAGGAA	51
	(2) INFORMATION FOR SEQ ID NO: 3554:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 587 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	34e.1	
80	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3554:	
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
-	CTAATTETCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAACG TAAGTTBGAC	120
15	TACCATCGAC GCTAAGGAGC TTAACTTCTG TGTTCGGCAT GGGAACAGGT GTGACCTCCT	180
	TGCTATAGTC ACCAGACATA TGAATGTAAT TTATACATTC AAAACTAGAT AGTAAGTAAA	240
10	AGTGATTTG CTTCGCAAAA CATTTATTTT GATTAAGTCT TCGATCGATT AGTATTCGTC	300
	AGCTCCACAT GTCACCATGC TTCCACCTCG AACCTATTAA CCTCATCATC TTTGAGGGAT	360
	CTTATAACCG AAGTTGGGAA ATCTCATCTT GAGGGGGGCT TCATGCTTAG ATGCTTTCAG	420
5	CACTTALCCC GTCCACACAT AGCTACCCAG CTATGCCGTT GGCACGACAA CTGGTACACC	480
	AGAGGTATGT CCATCCCGGT CCTCTCGTAC TAAGGACAGC TCCTCTCAAA TTTCCTACGC	540
	ČCÁCGACGGA TAGGGACCGA ACTGECTCAC GACGTTCTGA ACCCAGA	587
0		

2583

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 399 base pairs

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3555:	
	GAATCTGAAT CGCTATCTGA ATCCGAGTCA CTGTCGGAAT CTGAGTCACT GTCGGAATCT	60
10	GAATCGCTAT CTGAATCTGA ATCGCTGTCT GAATCTGAAT CGCTGTCTGA ATCTGAGTCG	120
	CTATCTGAGT CGGAATCGCT ATCTGAGTCG GAATCACTGT CGGAATCTGA ATCGCTGTCT	180
	GAGTCGGAAT CACTGTCGGA GTCAGAATCG CTGTCTGAGT CGGAATCACT GTCGGAATCT	240
15	GAATCGCTAT CTGAATCTGA ATCGCTATCT GAATCCGAGT CACTGTCTGA GTCAGAATCG	300
	CTATCTGGAA TCTGGAGTCA CTGTCGGAAT CTGAGTCACT GGTCTGGAGT CAGAATCGCT	360
20	ATCTGGAATC CGANGTCATG GTCTGAGTCG GGAATCGCT	399
20	(2) INFORMATION FOR SEQ ID NO: 3556:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3556:	
	ATTCATCTTT CCAGATGATT CGTCTAATGT CGTCCTTTGT AACTCCGTAT AGAGTGTCCT	60
	ACAACCCCAA CAAGCAAGCT TGTTGGTTTG GGCTCTTCCC GTTTCGCTCG CCGCTACTAA	120
35	GGGAATCGAA TTTTCTTTCT CTTCCTCCGG GTACTAAGAT GTTTCAGTTC TCCGGGTGTG	180
	CCTTCTGATA TGCTATGTAT TCACATATCG ATAACATGAC ATAACTCATG CTGGGTTTCC	240
40	CCATTCGGAA ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG	300
	TAACGTCCTT CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT	360
	CTATGTTTCC ATCCTACAGG AAACGCGTTA TTAATCTTGT	400
45	(2) INFORMATION FOR SEQ ID NO: 3557:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 657 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
	•	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3557:

	ACAACTGGTA CACCAGAGGT ATGTCCATCC CGGTCCTCTC GTACTAAGGA CAGCTCCTCT	120
-	CAAATTTCCT ACGCCCACGA CGGATAGGGA CCGAACTGTC TCACGACGTT CTGAACCCAG	180
5	CTCGCGTACC GCTTTAATGG GCGAACAGCA ANCCCTTGGG ACCGACTACA GCCCCAGGAT	240
	GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGAACTCTT GGGGGAGATA	300
10	AGCCTGTTAT CCCCGGGGTA GCTTTTATCC GTTGAGCGAT GGCCCTTCCA TGCGGAACCA	360
٠	CCGGATCACT AAGTCCGTCT TTCGACCCTG CTCGACTTGT AGGTCTCGCA GTCAAGCTCC	420
	CTTATGCCTT TACACTCTAT GAATGATTTC CAACCATTCT GAGGGAACLT TGAGCGCCTC	480
15	CGTTACCTTT TAGGAGGCGA CCGCCCCAGT CAAACTGCCc GCcTGACACT GTCTACcmCC	540
	ACGATAAGTG GTGCGGGTTm GmAAGCCAAC ACAGCTAGGG TAGTATCCCA CCAGCGCCTn	600
	CCCACTAATA GCGCTCACGT TTCAAAGGCT CCTACCTATC CTGTACAAGC TGTGCCG	657
20	(2) INFORMATION FOR SEQ ID NO: 3558:	
. 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPODOGI: IIIIEGI	
	(b) Torobosi: Timear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:	• • • • • • • • • • • • • • • • • • •
30		60
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558:	60 120
30 35	(xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA	*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC	120
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTTC ACAGTTGTCG	120 180
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTTC ACAGTTGTCG CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATCACGC	120 180 240
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT INTIGATTTC ACAGTTGTCG CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATCACGC CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATATT GCTTACACTG	120 180 240 300
35	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT INTIGATTTC ACAGTTGTCG CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATCACGC CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATATT GCTTACACTG AAAAAGTGGG TAATGGTGCA GAACATAGTA AGACAATTAA TGTTGTTCGT GGTCAAAATA	120 180 240 300 360
35 40	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 3558: GAGTCCATGG GTGAAAGAAG CATCTGCAGC AACTGTAGCA GGTATTGCTG GAACTAATAA TGGTATTACT GTTGCAGCAG GTACTTTCAA CCCTGCTGAT ACAATTCAAG TTGTTGCAAC GCAAGGACAG CGGAGAGACA GTGAGTGATG AGCAACGTAT nnTnGATTTC ACAGTTGTCG CACCACAACC GAACCAAGCG ACTACTAAGA TTTGGCAAAA TGGTCATATT GATATCACGC CTAATAATCC ATCAGGACAT TTAATTAATC CAACTCAAGC AATGGATATT GCTTACACTG AAAAAGTGGG TAATGGTGCA GAACATAGTA AGACAATTAA TGTTGTTCGT GGTCAAAATA ATCAATGGAC AATTGCGAAT AAGCCTGACT ATGTAACGTT	120 180 240 300 360

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3559:

		CGACACAAAA CAAGCCAAGC AAAACAAACG CATATAACGT AACAACACAT GGAAACGGCC	120
		AAGTATCATA TGGCGCTCGC CAACACAAAA CAAGCCAAGC	180
	5	AACAACACAT GCAAACGGTC AAGTGTCATA CGGAGCTCGC CCGACATACA AGAAGCCAAG	240
		TAAAACAAAT GCATACAATG TAACAACACA TGCAGATGGT ACTGCGACAT ATGGGCCTAG	300
	10	AGTAACAAAA TAAGTTTGTA ACTCTATCCA AAGACATACA GTCAATACAA AACATTACGT	360
	×	ATCTTTACAA CAGTAATCAT GCATTCTATG ATGCTTCTAA	400
		(2) INFORMATION FOR SEQ ID NO: 3560:	
	15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	20		
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3560:	:
	25	TTTAGGTTAT ACAGCATTGC AGGCAGGATA CTTATCAATT ACTTATTTAA TCATGGTGTT	60
•	25	ATTGATGATT CGAGTTGGTG AAAAATTATT ACAAAAAATG GGTTCTAAGC GACCAATGTT	120
		ATTAGGTACA TTCATTGTGG TCATTGGTAT TGCACTTATT TCATTAGTAT TCTTACCAGG	180
	30	CATATTTAT GTTATCAGTT GTGTCGTAGG ATATTTATGT TTCGGACTAG GCTTAGGTAT	240
		TTATGCAACA CCTTCTACAG ATACAGCTAT TTCGAATGCA CCGTTAGATA AAGTTGGCGT	300
		TGCTTCAGGT ATTTATAAAA TGGCTTCATC ACTTGGTGGG CGCATTCGGT GTCGCAATTA	360
	<i>35</i> · ·	GTGGTGCTGT ATATGCTGGT GCAGTTGCTG CAACGAGCAT TCCATACAGG TGCGATGATT	420
		GCACTTTGGG TTAACGTATT GAATGGGGAA TCCATGGCCA TTTATCGCAA TTTTAATnCG	480
	40	CGATT	485
•	40	(2) INFORMATION FOR SEQ ID NO: 3561:	
	45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
4	50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3561:	
		AAATTATGTG AAGTAAAAGG AGTACGTCCA TGCAAAATTT AGATAAGAAT TTTCGACaTT	60
		TATCECGTAA AGAAAAGTTA CAACAATTGG TTGATAAGCA ATGGTTATCA GAAGAACAAT	120

	ATGTCATCGC GCAAGGTGCA TTACCCCGTTG GATTATTACC GAATATCATT GTGGACGATA	240
	AGGCATATGT TGTACCTATG ATGGTGGAAG AGCCTTCAGT TGTCGCTGCA GCTAGTTATG	300
5	GTGCAAAGCT AGTGAATCAG ACTGGCGGAT TTAAAACGGT ATCTTCTGAA CGTATTATGA	360
	TAGGTCAAAT CGTCTTTGAT GGCGTTGACG ATACTGAAAA ATTATCAGCA GACATTAAAG	420
10	CTTTAGAAAA GCAAATTCAT AAAATTGCGG ATGAGGCATA TCC	463
,,,	(2) INFORMATION FOR SEQ ID NO: 3562:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 643 base pairs (B) TYPE: nucleic acid	Ÿ
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3562:	
	AATTTAAACC CAATTGTCTG GCAAAACGTT TTCCTTTATA AAAAGATTTA AACGCGTTAA	60
05	TTAATCTTGG TGCnGGTCTT TCGAACACTA GCGATTATTT CTTATGAATT CAAGCTTATT	120
25	TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATTTTACTT ACTTATCTAG	180
	TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA CTGCTTTATT TTCAAAAAAT	240
30	CAAATĞCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTT CTTAATGCAT TGTCTAACAA	300
	CCGCTTTCTT TAAAAAGAAT AGATTGTCAA GCGCTCGCAT AAGCAATATC ACTTTAACCA	360
	AAAAATATTT GAATGTTAAA TAAACATTCA AAACTGAATA CAATATGTCA CGTTATTCCg	420
35	CATCTTCTGA AGAAGATGTT CCGAATATAT CCTTAGAAAG GAGGTGATCC AGCCGCACCT	480
	TCCGATACGG CTACCTTGLT ACGACTTCAC CCCAATCATT TGTCCCACCT TCGACGGCTA	540
	GCTCCTAAAA GGTTACTCCA CCGGCTTCGG GTGTTACAAA CTCTCGTGGT GTGACGGGCG	600
40	GTGTGTACAA GACCCGGGAA CGTATTCACC GTAGCATGCC TCG	643
	(2) INFORMATION FOR SEQ ID NO: 3563:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3563:	
	GATAAATCCA AATAGTGCAC TATAAAAAAT AATATCTACT AAAGTATCTT TATGTAATCC	60
55		

	TTCCATACCA TCGTACACTC AGTGGTCCTA AGTTAAATGC CACAGGATCT ATATAGTTAA	180
	ATACAATACC CATTCAACCT ACTCCTCACT CTTATGACTG TTCTTGATAA TTTCTTCATT	240
5	TAATCTTTCA CTAAATTCTT CGGCCGTGTT AATGCCCATG ATATTTAATC GATAGTTCAT	300
	TGCAGCGACC TCAATAATTA CCGCAACATT TCTACCAGGT CTTACAGGTA TTGGTTTTTT	360
10	TTAGTGGnTT TCAGTATCTA AAATACTTAG CGTCTCTTCA	400
	(2) INFORMATION FOR SEQ ID NO: 3564:	-
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3564:	
	TCGTCAGCnC nTGTCGTGAG ACGTTGGGTT AAGTCCCGCA ACGAGCGCAA CCCTTAAGCT	6,0
25	TAGTTGCCAT CATTAAGTTG GGCACTCTAA GTTGACTGCC GGTGACAAAC CGGAGGAAGG	120
. 25	TGGGGATGAC GTCAAATCAT CATGCCCCTT ATGATTTGGG CTACACGCT GCTACAATGG	180
	ACAATACAAA GGGCAGCGAA ACCGCGANGT CAAGCAAATC CCATAAAGTT GTTCTCAGTT	240
30	CGGATTGTAG TCTGCAACTC GACTACATGA AGCTGGAATC GCTAGTAATC GTAGATCAGC	300
	ATGCTACGGT GAATACGTTC CCGGGTCTTG TACACACCGC CCGTCACACC ACGAGAGTTT	360
. 0	GTAACACCCG AAGCCGGTGG AGTAACTTTT AGGAGCTAGC	400
35	(2) INFORMATION FOR SEQ ID NO: 3565:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	* * * *	. *
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3565:	
	CAAACCATTT GTAGCTATTT GTAACTCTTA TATTGATATT GTTCCTGGAC ATGTTCACTT	6,0
	GAGAGAGCTT GCAGATATAG CTAAAGAAGC AATTAGAGAA GCCGGTGCCA TTCCATTTGA	120
50	ATTCAATACA ATTGGTGTTG ATGATGGAAT AGCTATGGGA CATATCGGAA TGCGATATTC	180
	TCTACCATCA CGTGAAATTA TTGCAGATGC AGCTGAAACT GTAATTAACG CTCATTGGTT	240
	TGACGCGTA TTTTACATTC CTAATTGTGA CAAGATTACA CCCGGTATGA TTTTTACCACC	. 200

400

TGCACATGGA AAAGCATTAA CACTTTCATC AATGTTTGAA

	(2) INFORMATION FOR SEQ ID NO: 3566:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3566:	•
15	AAATTACGTA CALATTTAAA GCTGACGGCA CTATGACTGC AGGAACATCT GCCCCACTTT	60
	CTGATGGTGC AGGATTTGTA GTTTTAATGT CTGGAGATAA AGTGAAAGAA CTCGGCGTGA	120
	CACCTATTGC ACGATTCGTT GGTTTTAAGG CAGTAGGCGT TGACCCGAAA ATTATGGGTA	180
20	TTGGGCCTGC ATATGCGATT CCTGAAGTAT TGTCACTCAG CAATCTATCT GTTGAAGACA	240
	TTGATTTGAT CGAATTGAAC GAAGCATTTG CTTCTCAAAC GATTGCATCT ATTAAAGAAG	300
	TAGGTCTAGA TATATCACGT ACGAATGTGA ATGGTGGCGC TATTGCTTKA GGTCATCCAT	360
25	TAGGTGCTAC AGGCGCAATG TTAACCGCGC GTTTACLTAA TGAAATGGGT AGACGTCCCG	420
	(2) INFORMATION FOR SEQ ID NO: 3567:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3567:	
	TACGGGAAGT AGCTCAGCTT GGGTAGAGCA CTTGGTTTGG GACCAAGGGG TCGCAGGTTC	60
40	GAATCCTGTC TTCCCGATAT ACTGTAATTA TTATGGGGGC TTAGCTCAGC TGGGAGAGCG	120
1	CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA TATTATTTAC	180
45	AAACTATATA AGGCGGTGTA GCTCAGCTGG CTAGAGCGTA CGGTTCATAC CCGTGAGGTC	240
45	GGGGGTTCGA TCCCCTCCAC CGCCACTATT TATTAGTTGT AAAATTATAT TTAGGACCTT	300
	TAGCTCAGTT GGTTAGAGCT AACGGCTCAT AACCGTTCGG TCGCAGGTTC GAGTCCTGCA	360
50	GGTCCCATAT AATTTTGGAG GAATACCCAG TCCGGCTGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3568:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		* . • .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3568:	٠
	TTAGCCAATC CCCATTCTGG ACGTACCTCA CTCCAATCAC TCGCAAACCG CTGCGCTTCT	60
10	TCCACTGGAT GATTCACACG ACCAATCGTT GGCAGTTTGT CCAAACGTTC GCGATTCGGT	120
	GTTTCAGAAA TCATCGGCAT CGCGTCATTC AATGATTCAT ATGCATCTAA AGCAATAGAA	180
4.0	GATAATGTGT CTGGCACATA TACCCATGCC AACGTATCAG TAGACGTATG ATGTTCTGCT	240
15	ACCGCAAAAA CAGTTGTCTC TGGANTATAC ACACCTGATT GTTTTAATCC TTGTCTGACA	300
	TTTGGACGAT TACATATCAT CGCTAATAAC TTAGCATTHA AAACCGCTTG ATGCGCCACC	360
20	ACAAGCCCCA CATTTCAAGT GATGGCATGG nTGTGGGTTn	400
	(2) INFORMATION FOR SEQ ID NO: 3569:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3569:	
	CCCCGACCTC ACGGGTATGA ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA	60
35	GTTTGTAAAT AATATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG	·· 120
:		, 180
	ATTCGAACCT GCGACCCCTT GGTCCCAAAC CAAGTGCTCT ACCAAGCTGA GCTACTTCCC	240
40	GTATAATTAA CGCGCCCGAT AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC	300
	TCTATCCAAT TGAGCTACGG GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA	360
	TCGAACCGGT ACGTGATCAC TCACCGCAGA TTTTAAGTCC	400
45	(2) INFORMATION FOR SEQ ID NO: 3570: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 542 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

2590

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3570:

	GTTTTTATCC GTTGAGCGAT GGCCNTCCCA TGGGGACCTA CCGGATCACT AAGTCCGTCT	120
_	TTTCGACCCT GCTTCGACTT GTAGGTCTCG CAGTCAAGCT CCCTTATGCC TTTACACTCT	180
5	ATGAATGATT TCCAACCATT CTGAGGGAAC CTTTGAGCGC CTCCGTTACC TTTTAGGAGG	240
	CGACCGCCCC AGTCAAACTG CCCGCCTGAC ACTGTCTCCC ACCACGATAA GTGGTGCGGG	300
10	TTAGAAAGCC AACACAGCTA GGGTAGTATC CCACCAGCGC CTCCACGTAA GYTAGCGCTC	360
	ACGTTTCAAA GGCTCCTACC TATCCTGTAC AAGCTGTGCC GAATTTCAAT ATCAGGCTAC	420
	AGTAAAGCTC CACGGGGTCT TTCCGTCCTG TCGCGGGTAA CCTGCATCTT CACAGGTACT	480
15	ATGATTTCAC CGAGTCTCTC GTTGAGACAG TGCCCAAATC GTTACGCCTT TCGTGCGGGT	540
	CG	542
	(2) INFORMATION FOR SEQ ID NO: 3571:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 619 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3571:	
30	ATGCCCGACC ACATGGAGCT TCCAATCCCA TTGCTCTAAC CAATGAGCTA CTGAACCATa	60
	aTaAAAATGT AAtGATGGCG GTCTCGACGG GAATCGAACC CGCGATCtCn GCGTGACAGG	120
	CAGGCGTGTT AACCCCTACA CTACGAGACC TATAAAATAT TGCGGGAGGC GGATTTGAAC	180
35	CACCGGACTT CGGGTTATGA GCCCGACGAG CTACCGAACT GCTCCATCCC GCGATAATAA	240
	AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC CCGTTAAGGC CCTGTCGGTT	300
40	TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG GTAAATCGCT	360
	ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC TCCTGCGTGA	420
	CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG AAGAGGGATT	480
45	CGAACCCCC CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT TCAGCCGGAC	540
	TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTKCGA CCGAACGGTT	600
	ATGAGCCGTT AGCTCTAAC	619
50	(2) INFORMATION FOR SEQ ID NO: 3572:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	10/ DIGHTDDHEDD. WOUDIE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3572:	e de la companya de l
	GGTGAAGACA TCACGTATCA AGAAGCATGG GCAGATGAAG AATATCGTGA AGACTTAAAA	60
5	GCAGAATTAA TTGATCAAGC GGTTACTTCA TTGAGCCACA AGATTTATTC AGTGCGATGA	120
	TTCGTGAAAT TGAAACGCAA GATTTCGATA TAGAACATCT AGCGACGGCG ATTCGCAAAG	180
10	TTGAAACATC TACATTAGGT GAAGAAAGTG AAAATGACTT TATCGGGCTG TTCAGCGATA	- 240
	TGGATTTGAG .TTCAACGCGA CTAGGTAACA ATGTCAAAGA ACGTACTGCT TTAATCTCTA	300
	AAGTCATGGT TAATCTTGAC GACTTACCAT TCGTTCACAG TGACATGGAA ATTGATATGT	360
15	TAGGTGATGC ATATGAATTC CTAATCGGGC GCTTTGCGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3573:	*
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3573:	
	CAAATCGTAA CTCGCCGGTT CATTCTACAA AAGGCACGCC ATCACCCATT AACGGGCTCT	60
30	GACTACTTGT AAGCACACGG TTTCAGGTTC TATTTCACTC CCCTTCCGGG GTGCTTTTCA	120
	CCTTTCCCTC ACGGTACTGG TTCACTATCG GTCACTAGAG AGTATTTAGC CTTAGGAGAT	, 180
	GGTCCTCCCA GATTCCGACG GAATTTCACG TGCTCCGTCG TACTCAGGAT CCACTCAAGA	240
35	GAGACAACAT TTTCGACTAC AGGATTATTA CCTTCTTTGA TTCATCTTTC CAGATGATTC	300
	GTCTAATGTC GTCCTTTGTA ACTCCGTATA GAGTGTCCTA CAACCCCAAC AAGCAAGCTT	. 360
40	GTTGGTTTGG GGCTCTTCCC ATTTCGCTCG CGGCTACTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3574:	i)
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1051 base pairs(B) TYPE: nucleic acid	•
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3574:	
	MCCCMC1110 1MCC1MC100 MM11M1CCMM CO1GCMCC11 CO1MCCMC1 C 1MCCMCC10	

	TTTACTTACT	ATCTAGTTTT	GAATGTATAA	ATTACATTCA	TATGTCTGGT	GACTATAGCA	180	
5	AGGAGGTCAC	ACCTGTTCCC	ATGCCGAACA	CAGAAGTTAA	GCTCCTTAGC	GTCGATGGTA	240	
5	GTCGAACTTA	CGTTCCGCTA	GAGTAGAACG	TTGCCAGGCA	TAATATTAAT	CCACAGTAGC	300	
	TCAGTGGTAG	AGCTATCGGC	TGTTAACCGA	TCGGTCGTAG	GTTCGAGTCC	TACCTGTGGA	360	
10	GCCATGGCTC	CTEGGTCAAG	CGGTTAAGAC	ACCGCCCTTT	CACGGCGGTA	ACACGGGTTC	420	
	GAGTCCCGTA	GnAGTCATTA	TTTTGGAGAA	TTAGCTCAGC	TGGGAGAGCA	TCTGCCTTAC	480	
	AAGCAGAGGG	TCGGCGGTTC	GAACCCGTCA	TTCTCCACCA	TTTTGATTAT	TAAATTATAT	540	
15	GAATAAGCTG	GAGGGGTAGC	GAAgTGGCTA	AACGCGGCGG	ACTGTAAATC	CGCTcCTTCG	600	
	GGTTCGGCAG	TTCGAATCTG	CCCCCTCCA	CCGAACA CAGAAGTTAA GCTCCTTAGC GTCGATGGTA PAGAACG TTGCCAGGCA TAATATTAAT CCACAGTAGC PAACCGA TCGGTCGTAG GTTCGAGTCC TACCTGTGGA PAACCGA TCGGTCGTAG GTTCGAGTCC TACCTGTGGA PAAGAC ACCGCCCTTT CACGGCGGTA ACACGGGTTC PAGGAGAA TTAGCTCAGC TGGGAGAGCA TCTGCCTTAC PAGGAGAA TTCTCCACCA TTTTGATTAT TAAATTATAT PAGGCTA AACGCGGCGG ACTGTAAATC CGCTCCTTCG PACCTCCA CCATCTATAT ATTGGGCTAT AGCCAAGCGG PACACTCG TTGGTTCGAA TCCAGCTAGC CCAGCCATTA PAGGCTA ACTTTTAATC AGAGGGTCAG AGGTTCGAAT PAGAAGA ACTATTTTA AAATACAACT TTTAGAGCTT PAGATTGGG CTTGGTTGTC TTCTTTTTTT CTCCTTTGLA PAGGCTA AAGTGTGAAA TTTCTGTAAC CAAAAGAATA PAGTGCCT C PATGCCT C PAGGCTA CAAAAGAATA PAGTGCCT C PAGTGCT C PAGTGCCT C PAGTCCT C PAGTGCCT C PAGTGCCT C PAGTGCCT C PAGTGCCT C PAGTGCCT				
	TAAGGCAACG	GACTTTGACT	CCGTCACTCG	TTGGTTCGAA	TCCAGCTAGC	CCAGCCATTA	720	
20	GAGCCATTAG	CTCAGTTGGT	AGAGCATCTG	ACTTTTAATC	AGAGGGTCAG	AGGTTCGAAT	780	
•	CCTCTATGGC	TCACTACTTG	CACTTTCCAT	TTTTGGGAAG	TGCTTTTTTT	TAGGTTCTcC	840	
	ACCAAATGTG	GTGGGLATAT	AATTTAAAGA	ACTATTTTTA	AAATACAACT	TTTAGAGCTT	900	
	TTATTATTAG	GCGGCCAGTC	CATTATTGGG	CTTGGTTGTC	TTCTTTTTT	CTCCTTTGtA	960	
	CAAGCTGAAA	ATCATCATTA	TACGTGCLTA	aagtgtgaaa	TTTCTGTAAC	CAAAAGAATn	1020	
30	CACTTGATTA	ATTnnATCTA	TATAATGCCT	С			1051	-
						-		

(2) INFORMATION FOR SEQ ID NO: 3575:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

40

45

50

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3575:

GTGGAGCGCT	TAGAAGTGAG	AATGCAAGTG	TGAGTAGCGA	AAGACGGGTG	AGAATCCCGT	60
CCACCGATTG	ACTAAGGTTT	CCAGAGGAAG	GCTCGTCCGC	TCTGGGTTAG	TCGGGTCCTA	120
AGCTGAGGCC	GACACGTATG	GCGATGGATA	ACAGGTTGAT	ATTCCTGTAC	CACCTATAAT	180
CGTTTTAATC	GATGGGGGGA	CGCATAGGAT	AGGCGACGTG	scgattggat	TGCACGTCTA	240
AGCAGTAAGG	CTGAGTATTA	GGCAAATCCG	GTACTCGTTA	AGGCTGAGCT	GTGATGGGGA	300
GAAGACATTG	TGTCTTCGAG	TCGTTgATTT	CACACTGCCG	AGAAAAGCCT	CTAGATAGAA	360
AATAGGTGCC	CGTaCCGCAA	Aaccgacaca	GGTAGTCCAA	GATGnGAATT	CTAAnGTGAA	420

es es

(2) INFORMATION FOR SEQ ID NO: 3576:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	**************************************
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3576:	· · · · · ·
	TTTGTTCCTT TTTTAATTTA TATATTTAAA ATACACATAT TCAAGAGCTC GAGATATAAG	60
15	TCAATGTACT AGGCACACAA TTTAATATTG ACAGTAATTA ACCGAACGAA AATGCGCCCC	120
	GGGGCCCCAA CATAGAGAAT TTCGAAAAGA AATTCTACAG ACAATGCAAG TTGGCGGGGC	180
	CCCAACATAG AAGCTGGCCA ATAGTTAGCT TTCAATAATG TGCAAGTTGG GGTAAGGGCC	240
20	CCAACACAGA AGCTGGCCAA TAGTCAGCTT TCAATAATGT GCAAGTTGGG GTAAGGGCCC	300
•	CAACACAGAG AATTTCGAAA AGAAATTCTA CAGACAATGC AAGTTGGCGG GGCCCCAACA	360
	CAGAAGCTGG GCCAATAGTC AGCTTTTCCA ATAATGTGGC	400
25	(2) INFORMATION FOR SEQ ID NO: 3577:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3577:	
	TGCATCTTCA CAGGTACTAT GATTTCACCG AGTCTCTCGT TGAGACAGTG CCCAAATCGT	60
	TACGCCTTTC GTGCGGGTCG GAACTTACCC GACAAGGAAT TTCGCTACCT TAGGACCGTT	120
40	ATAGTTACGG CCGCCGTTTA CTGGGGCTTC GATTCGTAGC TTCGCAGAAC TAACCACTCC	180
	TCTTAACCTT CCAGCACCGG GCAGGCGTCA GCCCTATACA TCACCTTACG GTTTAGCAGA	240
	GACCTGTGTT TTTGATAAAC AGTCGCTTGG GCCTATTCAC TGCGGCTCTT CTGGGCGTTA	300
45	ACCCTAAAGA GCACCCCTTC TCCCGAAGTT ACGGGGTCAT TTTGCCGAGT TCCTTAACGA	360
	GAGTTCGCTC GCTCACCTTA GAATTCTCAT CTTGACTAAC	400
50	(2) INFORMATION FOR SEQ ID NO: 3578:	•
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3578:	
	TAACTTAACA CGACTTCTTA AGTCATTTAG TTTTAATGTT TGATGTGTTT CTGCTAAACC	60
5	AATCTCCCAA GGAACACCGG CATGCTGAAT ACTCGTTTTG GGTGAAGCCC TGTACCACCA	120
	TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA TGCAATGGTA	180
10	CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT CGCATTTTTC	240
	AAATCATGTA TCAGTTGCGC TAAATCTTCT ATTGAATAAA TATCATGATG TGGCGGTGGT	300
	GAAATCAGAC CGATACCTGG CGTTGGACCC TCTTGTCTTC GCAATCCACG GATATACCTT	360
15	AGTACCAGGT AATTGGACCA CCTTCACCAG GCTTTGCACC	400
	(2) INFORMATION FOR SEQ ID NO: 3579:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3579:	
,	AGCTACACCG CCTTATATAG TTTGTAAATA ATATGGTGGA GACTAGCGGG ATCGAACCGC	60
30	TGACCTCCTG CGTGCAAAGC AGGCGCTCTC CCAGCTGAGC TAAGCCCCCA TAATAATTAC	120
	AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC AAGTGCTCTA	180
	CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC CCATAACCTC	240
35	TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT TTTATTGAAA	300
	ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA TTTTAAGTCC	360
	TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT	400
10	(2) INFORMATION FOR SEQ ID NO: 3580:	·
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3580:	
	ACGTAAATAA CCATAACGAC GTGCCTCAAA GGCATTTGTA GAGACTTTCG CAAATGCGAT	60

	TATGCGATCA GCCATTTCTG CAAGGCCACC GCCACTCGGT AATAAGCCAA CACCTGCTTC	180
	AACAAGACCG ATATATGTTT CACTTGCAGC GACAACAATA GGTGAGTAAA GTACAAGCTC	240
5	ACAGCCACCG CCTAAGGCAC GACCTTGAAC AGCTGTGACT ACTGGTTTCA AACTATACTT	300
a the steem to	CAAACGATTA AAGCTATAAT GTAATTTATC AATTGATTGT GCACGACATC ATCTACAAGA	360
10	CCGTCTTCCA TGCGCCTTTT TCCATTAAGA AAGGGTTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3581:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
×	(D) TOPOLOGY: linear	ŧ .
		a.·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3581:	
	ATGTCATTGT TGGTACGGCT TTTCCAGAAG GATTACAAGG CCAAAACATT GCACGAACGA	,60
	TTGCATTGCG TGCGGATTAT CTGACACGGT ACCGGGTCAA ACAGTGAATC GCTACTGCTC	120
25	ATCAGGATTA CAAACCATGC GATTGCAGCC AATCAAATTA TGGCTGGTCA AGGAGATATA	180
	CTTGTAGCTG GTGCGTTGAA TTGATGAGTG CCGTACCAAT GGGTGGCAAC GAGCCCACAA	240
30	ACAATCCAAC CTTACAATAT GATGATATAG GTGCGTCATA TCCTATGGGT TTAACTGCTG	300
	AAAATGTAGC ATCCCAATTT GACGTATCAC GCGAAGATCA AGATGCTTAT GCTGTCAGAA	360
	GTCATCAACG TGCCTATGAC GCACAACGTG ATGGGTCCGG	400
35	(2) INFORMATION FOR SEQ ID NO: 3582:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3582:	
-	AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT	60
	TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT AAAAAAAAGA GACCTTGCGG	120
50	TCTCAATGCG GCTCATCGCA TCCATTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT	180
	AAGTTGGCTA CCATCGACGC TAAGAACCTT TCTTGACTTG TGACAATCGC TTGCTTCTTT	240
	COMPANY CONTROL OF CONTROL OF CHICAMINA CONTRACTOR A ACTOCOMPANY CONTROL OF CHICAMINA ACTOCOMPANY CONTROL OF CONTROL OF CONTROL OF C	200

	ATTTTGACGT TTTAGACATA AAAAAAAGAG ACCTTGCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3583:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3583:	
15	AAGCAGGCGC TCTCCCAGCT GAGCTAAGCC CCCAAATAGG TATTAAATTA ATGGTGGGCC	60
	TAAGTGGACT CGAACCACCG ACCTCACGCT TATCAGGCGT GCGCTCTAAC CAGCTGAGCT	120
	ATAGGCCCAT TAATTTGAAT GAACAAACAT TCAAAACTGA ATACAATATG TCACGTTATT	180
20	CCGCATCTTC TGAAGAAGAT GTTCCGAATA TATCCTTAGA AAGGAGGTGA TCCAGCCGCA	240
	CCTTCCGATA CGGCTACCTT GTTACGACTT CACCCCAATC ATTTGTCCCA CCTTCGACGG	300
	CTAGCTCCTA AAAAGGTTAC TCCACCGGCT TCGGGTGTTA CAAACTCTCG TGGTGTGACG	360
25	GGCGGTGTGT ACAAGACCCG GGAACGTATT TCACCGTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3584:	2.
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	29.54
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	: 1,
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3584:	4
	ACTTATTTGG CGATATTTTA AGTGATGAAG CTTCAGTGAT TCCTGGTTCA CTTGGTTTAT	60
40	CACCTTCTGC TAGTTTTAGT AACGATGGTC CAAGATTGTA TGAGCCTATT CATGGATCAG	120
	CACCAGATAT TGCAGGTAAA AACGTTGCCA ATCCATTTGG AATGATTCTA TCTTTAGCGA	180
	TGTGTTTACG TGAAAGCTTA AATCAACCAG ATGCTGCAGA TGAATTAGAA CAACATATTT	240
45	ATAGCATGAT TGAACATGGG CAAACGACAG CAGATTTAGG CGGCAAATTG AATACTACTG	300
	ATATTTTCGA AATTCTATCT CAAAAATTGA ATCACTAAGG GGGGAGATGT AAATGGGGTC	360
50	AAACATTATT TGACAANGTG TGGGACAGAC ATGTGTTATA	400
50	(2) INFORMATION FOR SEQ ID NO: 3585:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

STRANDEDNESS: double

	(b) torobod: linear		
			2
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3585:	vo.	
	ACTGATGACA ATTTTATCTG CAAATGCTTT TGCCACCCCA GATGCAATGG	TACCAACACC	60
10	TGTTTTCGAA ACTAATTTTA CCGCGATATC TGCATCTTTA TTCGCATTTT	TCAAATCATG	120
m.i., pr	TATCAGTTGC GCTAAATCTT CTATTGAATA AATATCATGA TGTGGCGGTG	GTGAAATCAG	180
	ACCGATACCT GGCGTTGACC CTCTTGTCTT CGCAATCCAC GGATATACCT	TAGTACCAGG	240
15	TAATTGACCA CCTTCACCAG GCTTTGCACC TTGCGCAACT TTAATTTGAA	TTTCTTTGGG	300
	CATGTTGTAA ATAATCACTA GTTACACCAA AACGCCCAGA AGCAACTTGT	TTAATCGCAC	360
	TTACTTTGGT GGCTTCCATC AACTTGTACT TCATAACGGT		400
20	(2) INFORMATION FOR SEQ ID NO: 3586:	Y•.	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	, , , , , , , , , , , , , , , , , , ,	•
	(D) TOPOLOGY: linear		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3586:		
30	TACAAGTATT ACCATTATCT CHAGAGGATT CTAGATAAGG GGCATGGATC	ATTTGTCTTC	·. 60
	TTATGAATTT GAGCCAGATA AAGAATCTAT CTTAAGTGTA ATCTTGACCT	CAATATGTTG	120
35	AGAGTTTGAT TTACGGAACA ATATTAGACG CAAAAGCAAG TGAGCATGCA	ACACGTATGA	180
	CTGCGATGAA AAATGCCACT GATAATGCAA CTGAACTTAT TGATGACTTA	TCATTAGAAT	240
	ATAACAGAGC GAGACAAGCA GAAATTACGC AACAAATTAC TGAAATTGTT	GGTGGTTCCG	300
40	CAGCGCTTGA ATAATATTTA ANGGAGGAAA ATAGCATGGG AATTGGCCGT	GTACTCAAGT	360
	TATGGGTCCT GTAATTGATG TTCGATTTGA ACATAACGAG		400
	(2) INFORMATION FOR SEQ ID NO: 3587:		
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		. 1 1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3587:

	AGGATTCGAA CCTGCGACCC CTTGGTCCCA AACCAAGTGC TCTACCAAGC TGAGCTACTT	120
	CCCGTATAAT TAACGCGCCC GATAGGAGTC GAACCCATAA CCTCTTGATC CGTAGTCAAA	180
5	CGCTCTATCC AATTGAGCTA CGGGCGCATA TGTTTTTATT GAAAATGGTG CCGAGGACCG	240
	GAATCGAACC GGTACGTGAT CACTCACCGC AGGATTTTAA GTCCTGTGCG TCTGCCAGTT	300
	CCGCCACCCC GGCACTATAA AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC	360
10	CTTGGCAAGG TTGTATTCTA CCGCTGAACT ACTTCTGCAT	400
	(2) INFORMATION FOR SEQ ID NO: 3588:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3588:	
*	TACTATTGAC ATGTGTGAAC CCTATGTCCG ATTATTTCGC GACCTATTTC CTAATGCAGC	60
25	TATTATTTTT GACAGATTCC ATATCGTTCA ACATTTAAAT AGAGAACTTA ATAAGTATCG	120
*	TGTACAAGTT ATGAATGAAT ACCGTAATAA AAAAGGACCT GATTATACAA TTTTTAAGAA	180
÷	TAACTGGAAA GTCCTATTGA TGGATACTAG TAAAACCATA TTTAGTAAAT ACAGATGGAA	240
30 .	TAAATCITIT AAGGGCITAT AAACGCTCAT CTGACATTGT AGAATTCATG CTTTCAAAAG	300
	ACGATATACT ACGACACTCC TACGAACTTG TCCAGGGATT ACGAAAAGAC CTAAGGGTAT	360
35	GTAATTGGGC CTAAATTTAT TAATCGTTTA AATTCCGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3589:	.5
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3589:	
	AGAGCGAACG GACGAGAAGC TTGCTTCTCT GATGTTAGCn GCGGACGGGT GAGTAACACG	60
	TGGATAACCT ACCTATAAGA CTGGGATAAC TTCGGGAAAC CGGAGCTAAT ACCGGATAAT	120
50	ATTITGAACC GCATGGITCA AAAGTGAAAG ACGGICTIGC IGTCACTIAT AGATGGATCC	180
	GCGCTGCATT AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAACGATGC ATAGCCGACC	240

	AGTAGGGAAT CTTC	CGCAAT GGGCGAAAG	C TGACGGAGCA	ACGNCGCGTG	AGTGATGAAG	360
_	GTCTTCGGAT CGTA	AAACTC TGTTATTAG	G GAAGAACATA	4-		400
5	(2) INFORMATION	FOR SEQ ID NO:	3590:	•		
		CE CHARACTERISTIC		0		
		ENGTH:-509-base (PE: nucleic acid			err component ser reput. Stept. spil. som restration in	
10		TRANDEDNESS: doub DPOLOGY: linear	ole			
	(μ) το	POLOGI: IIMear		- · · · · · · · · · · · · · · · · · · ·		
	•		,	,	•	
15	(xi) SEQUEN	NCE DESCRIPTION:	SEQ ID NO:	3590:		
	GTTAGGAGAG CGTTC	TAAGG GCGTTGAAGG	CATGATCGTAA	GGACATGTGG	AGCGCTTAGA	60
	AGTGAGAATG CCGGT	TGTGAG TAGCGAAAG	A CGGGTGAGAA	TCCCtCCACC	GATTGACTAA	120
20	GGTTTCCAGA GGAAG	GCTCG TCCGCTCTGC	GTTAGTCGGG	TCCTAAGCTG	AGGCCGACAg	. 180
	gTAaGGCGAT GGATA	ACAGG TTGATATTC	C TGTACCACCT	ATAATCGTTT	Taatcgatgg	240
	GGGGACGCAT AGGAT	TAGGCG AACGTGCGA	TGGATTGCAC	GTCTAAGCAG	TAAGGCTGAG	300
25	TATTAGGCAA ATCCC	GTACT CGTTaAGGCT	r gagctgtgat	GGGGAGAAGA	CATTGWGTCT	360
	TCGAGTCGTT GATT	CACAC TGCCGAGAA	A AGCCTCTAGA	TAGAAAATAG	GTGCCCGTAC	420
	CGCAAACCGA CACAG	GTAAT CCAAGATGAC	AATTCTAAGG	TGAGCGAGCG	AACTCTCGTT	480
30	AAGGAACTCG GCAAA	ATGAC CCCGTAACT	*			509
	(2) INFORMATION	FOR SEQ ID NO: 3	3591:		* 2	
<i>3</i> 5		E CHARACTERISTIC				
.55		NGTH: 400 base p PE: nucleic acid				
	(C) ST	RANDEDNESS: doub				
	(D) TC	POLOGY: linear			•	
40		· *				
	(xi) SEQUEN	ICE DESCRIPTION:	SEQ ID NO: 3	3591:	• •	
	ATTTCTTATG AATTC	CAAGCT TATTTAAAA	C TCTTTATTCA	CTCGGTTTTG	CTTGGTAAAA	60
45	TCTATATTTT ACTTA	CTTAT CTAGTTTTC	ATGTACAAAT	AATGGTGGAG	ACTAGCGGGA	120
	TCGAACCGCT GACCT	CCTGC GTGCAAAGC	A GGCGCTCTCC	CAGCTGAGCT	AAGCCCCCAA	180
	ATAGGTATTA AATTA	ATGGT GGGCCTAAGT	GGACTCGAAC	CACCGACCTC	ACGCTTATCA	240
50	GGCGTGCGCT CTAAC	CAGCT GAGCTATAGC	CCCATTAATT	TGAATGAACA	AACATTCAAA	300
	ACTGAATACA ATATO	TCACG TTATTCCGC	A TCTTCTGAAG	AAGATGTTCC	GAATATATCC	360

(2) INFORMATION FOR SEQ ID NO: 3592:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 440 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3592:	
	TGGGnAACGC AACATCCTTT TCCAACTTAA CATATATTTT GGGACCTTaG CTGGTGGTCT	60
15	GGGCTGTTTC CCTTTCGAAC ACGGACCTTA TCACCCATGT TCTGACTCCC AAGTTAAATT	120
	AATTGGCATT CGGAGTTTGT CTGAATTCGG TAACCCGAGA GGGGCCCCTC GTCCAAACAG	180
	TGCTCTACCT CCAATAATCA TCACTTGAGG CTAGCCCTAA AGCTATTTCG GAGAGAACCA	240
20	GCTATCTCCA GGTTCGATTG GAATTTCTCC GCTACCCTCA GTTCATCCGC TCACTTTTCA	300
	ACGTAAGTCG GTTCGGTCCL CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG	360
	ATCACCTGGT TTCcGsGTsT ACGACCAAAT ASTAAACGCC CTATTCAGAC TCGCTTTCGC	420
25	TANGGCTCCA CATTACTGGn	440
	(2) INFORMATION FOR SEQ ID NO: 3593:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3593:	•
	TAAACGAACC AATTITATTI GGTGCACCAC TAGTATTGAA TCCTGTGTTC TITATTCCAT	60
40	TTGTATTAGC ACCAATTGTT AACGTATGGA TTTTCAAACT TTTCGTTGAA GTGTTAGGAA	120
	TGAATAGTTT TAGTGTGAAT TTACCTTGGA CAACACCAGG TCCATTGGGC ATTATCATGG	180
	GTACAGGTTT TGGTTTATGG TCATTCGTAC TAGCTATTAC TTTGATTGTT GTAGATATTA	240
45	TTATHTACTA CCCATTCCTA AAAGTTTATG ATAGTGAAAT TCTTGATGAA GAAGAAGGAC	300
	GTAAAGAAAG TAATTCAGAT TTAAAAGAAA AAGTTGCAGC AAACCTTTGA TACGAAAAAA	360
	GCTGATTCAA TTTTAGCGGC AAGTGGTGTA TCAGACGATG	400
50	(2) INFORMATION FOR SEQ ID NO: 3594:	
*	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 .		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3594:	
	AAGGGAATCG AATITTCTTT CTCTTCCTCC GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	6.0
10	TGCCTTCTGA TATGCTATGT ATTCACATAT CGATAACATG ACATAACTCA TGCTGGGTTT	120
• ()()	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
15	TCTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	300
	TARATGCTCA TTTACATARG TARACTCTGC TTTARARTAR TTTARCTCAT TGTCTGCTAR	360
	ACGITITCIT ITATAAAAAG ATTTAAACGC GITALTAATC CTCTCGCTC	409
20	(2) INFORMATION FOR SEQ ID NO: 3595:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3595:	
	AATATAAGCC CTGGATCATA CATGACCTGT ATTTGGGCAA TCCCTTCTGC TACATCTTCT	60
	GCCCACTCAT TCAATATTTG TTTTGCAATA TCATCACCTT CTTCAGCTGC TTCAAACAAT	120
35	ACTGGCACAT GTGTGCTTCT CGTAAATCCT CCGGCAATCA TGCGCTTTTT CAATGCACTC	180
	GTTGCAGCAC GTTGCTCAAA CGTTGTATTT TCAGTTGGAC GATACAATAA ATACCCAACT	240
	TCATTTGCCT TATGAAGCTC ACCATTATCA ATATGACCTT GGATTATTCT TGTACGCACC	300
40	CCCAATGGCC TGGTACCAAG CGTCCATACA AAAGATCCGT TCTGGCTTGG ATATTGGATG	360
	GTAATTTCCA ATTCGGCCTA GTTAATGGCA GCGGTTTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3596:	1
45 	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 596 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2602

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3596:

	CTGCCGAACC CGAAGAGCGG ATTTACAGTC CGCCGCGTTT AGCCACTTCG CTACCCTCCA	120
	GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG ACGGGTTCGA CCGCCGACCC	180
5	TCTGCTTGTA AGGCAGATGC TCTCCCAGCT GAGCTAATTC TCCAAAATAA TGACTCCTAC	240
	GGGACTCGAA CCCGTGTTAC CGCCGTGAAA GGGCGLGTCT TAACCGCTTG ACCAAGGAGC	300
	CATGGCTCCA CAGGTAGGAC TCGAACCTAC GACCGATCGG TTAACAGCCG ATAGCTCTAC	360
10	CACTGAGCTA CTGTGGATTA ATATTATGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	420
	TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	480
15	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATTTAT ACATTCAAAA CTAGATAGTA	540
	AGTAAAAGTG ATTTTGCTTC GCAAAACATT TATTTTGATT AAGTCTTCGA TCGATT	596
	(2) INFORMATION FOR SEQ ID NO: 3597:	
2 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3597:	
	TCATCTTGAG GGGGGCTTCA TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	60
30	TACCCAGCTA TGCCGTTGGC ACGACAACTG GTACACCAGA GGTATGTCCA TCCCGGTCCT	120
-	CTCGTACTAA GGACAGCTCC TCTCAAATTT CCTACGCCCA CGACGGATAG GGACCGAACT	180
	GTCTCACGAC GTTCTGAACC CAGCTCGCGT ACCGCTTTAA TGGGCGAACA GCCCAACCCT	240
35 .	TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC GAGGTGCCAA ACCTCCCCGT	300
	CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG GGTAGCTTTT ATCCGTTGAG	360
10	CGATGGCCCT TCCATGCGGA ACCACCGGAT CAATAAAGTC	400
	(2) INFORMATION FOR SEQ ID NO: 3598:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3598:	

2603

60

AACCAACGGC AGCAACTACA TGACCTAATT CTTGTGCTGA CTCTACATTT AGTAGCTCTA

	CACTTCAATT GTACCAATCA ATCGTTGACG ATCTTGATCG TAACGCCATG TAGCAATACC	180
	ACGATACTGT CCGTCACGAC TCGCGTATGC ATGCGCACTT GCTTCTGCAC CACGCGTATC	240
. 5	ATTTCCTGTT GCTAAAACAA CAGCATGTAT GCCATTCATA ACACCTTTAT TATGTGTTGC	300
	TGCACGATGA ATATCTACTT GGGCCAATAC AGAAGCACGT TCCATGGTTT GCAACCTCTT	360
10	CTCCAGTTCT CTCGCCCCTT GGCTAAATCT TTAACAT	397
· · · ·	(2) INFORMATION FOR SEQ ID NO: 3599:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3599:	
-	AACCCTTGGG ACCGACTACA GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCT	60
	CCCCGTCGAT GTGAACTCTT GGGGGAGATA AGCCTGTTAT CCCCGGGGTA GCTTTTATCC	120
25	GTTGAGCGAT GGCCCTTCCA TGCGGAACCA CCGGATCACT AAGTCCGTCT TTCGACCCTG	180
	CTCGACTTGT AGGTCTCGCA GTCAAGCTCC CTTATGCCTT TACACTCTAT GAATGATTTC	240
<i>30</i>	CAACCATTCT GAGGGAACCT TTGAGCGCCT CCGTTACCTT TTAGGAGGCG ACCGCCCCAG	300
	TCAAACTGCC CGCCTGACAC TGTCTCCCAC CACGATAAGT GTGCGGGTTA GAAAGCCAAC	360
	ACAGCTAGGG TAGTATCCCA CCAGCGCCTC CAACGTAAGC	400
35	(2) INFORMATION FOR SEQ ID NO: 3600:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(4) 55554551 44164	
46	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3600:	
	ATCTGAATCT GAGTCGTTGT-CTGAGTCCGA ATCGCTATCT GAATCTGAGT CGCTATCTGA	60
	GTCTGAGTCG CTATCTGAAT CTGAGTCGCT GTCTGAATCT GAATCACTGT CTGAGTCTGA	120
50	GTCGCTGTCT GAGTCTGAAT CGCTGTCAGA ATCTGAGTCG CTATCTGAGT CTGAATCTGA	180
	ATCACTGTCT GAGTCCGAAT CGCTATCTGA ATCTGAATCG CTATCTGAGT CTGAGTCGCT	240
	ATCCGAATCT GAGTCGCTAT CTGAGTCTGA GTCGCTATCC GAGTCTGAAT CGCTGTCTGA	300

	GGTCTGGAAT CTGANTCGCT AACTGAAATC TGAGTCGCTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3601:	
3	(i) SEQUENCE CHARACTERISTICS:	٠
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3601:	
15	ATTTAATACC TATTTGGGGG CTTAGCTCAG CTGGGAGAGC GCCTGCTTTG CACGCAGGAG	60
	GTCAGCGGTT CGATCCCGCT AGTCTCCACC ATTATTTGTA CATTGAAAAC TAGATAAGTA	120
	AGTAAAATAT AGATTTTACC AAGCAAAACC GAGTGAATAA AGAGTTTTAA ATAAGCTTGA	180
20	ATTCATAAGA AATAATCGCT AGTGTTCGAA AGAACATCCA CAAGATTAAT AACGCGTTTA	240
	AATCTTTTTA TAAAAGAACG TAACTTCATG TTAACGTTTG ACTTATAAAA ATGGTGGAAA	300
25	CATAGGTTAA GTTATTAAGG GCGCACGGTG GGATGCCTTG GCACTAGAAG CCGATGAAGG	. 360
23	GNCGTTACTA ACGACGATAT GCTTTGGGGA GCTGTAAGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3602:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs	
	(A) LENGTH: 396 base parts (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3602:	
	GCTGTCTGAG TCGGAATCAC TGTMGGAGTC AGAATCGCTG TCTGAGTCGG AATCACTGTC	60
40	GGAATCTGAA TCGCTATCTG AATCTGAATC GCTATCTGAA TCCGAGTCAC TGTCTGAGTC	120
	AGAATCGNTA TCTGAATCTG AGTCACTGTC GGAATCTGAG TCACTGTCTG AGTCAGAATC	180
45	GCTATCTGAA TCCGAGTCAT TGTCTGAGTC GGAATCGCTC GCTGAGTCGG AATCGCTTGC	240
	TGAATCTGAA TCACTCGCTG AGTCTGAATC ACTTGCTGAA TCTGAATCAC TCGCTGAATC	300
	TGAACCACTA TCTGATGTAG GAATCACTAC CCGAATCTGA ANCGCTATCT GAATAAGAAT	360
50	CGCTGCCAGA TCTGAACCTG GGGTCAGAAT CTGAAT	396
	(2) INFORMATION FOR SEQ ID NO: 3603:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 529 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	and the second second	
5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3603:		
	TTTCTTATCT GTAATTTAT CGTAAGATTT TITCGCAATG AGATTTGGAT	CGTnTTTGTC	60
10	CACTACAATA TCTAATAGTT TTACTTTAAG TCCAGCATTC ACAAAAAGTG	CTGCCAGTTG	120
	AGCGCCCATT GTGCCTGCGC CAAGAACGGT TACTTTATTA ATTGTCATAG	TGATTCCTCC	180
•	AATTTAGTTG AGGATAAGAT AACCATTAAG ATAATTGGAA TAACGTTGCT	ATTTTATAAA	240
15	ATTAATTAAG TATCTTTGAC AGTCATCTTA GCCTCTTATT TAAGGAAAAA	GCTTTATGCT	300
	TAAAATAAGT CTTTTTTAGT GAAATTAATG CATCTCATAT AATTATTTGC	TATTTATACG	360
	AAAGCmGaAT CTCCAGTCAA AGCGCGTCCA ATTACTAAGG CATTAATTTC	ATGTGTACCT	420
20	TCGTACGTGT AAATCGCTTC TGCATCAGAG AAGAAACGTG CAATATCATA	ATCGTCAGCT	480
	AGTATGCCAT TACCACCTGT AATACCGCGG CCCATAGCTA CTnTCTCAC		529
25	(2) INFORMATION FOR SEQ ID NO: 3604:		
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
		•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3604:		
35	CACAAGATAA GCATTGTAGA TGTGGATGCT TTAACTGGGC AAGCGATTGG	TCGTCCTAAA	60
-	ACAGGTACAT ATGCGCTATC TGACCTAGTC GGTTTAGATA TTGCAGTGTC	TGTAATTAAA	120
	GGCATGCAAC AAGTACCTGA AGAAACACCT TATTTTCATG ATGTCAAAAT	TGTAAATACG	180
40	TTGTTTGACA ATGGCGCACT CGGACGTAAA ACGAAACAAG GATTTTACAA	AAAGGATAAA	240
	GAAACTAAAG CTCGACTTGT TTACGATGTT GAAAAACAAG ATTATGTACC	TGTATCGCAA	300
45	CCACAATTAC CAATTTTAAA TGAATTTAAT AAAGACTTAG TGCATAACCT	TGATACCATA	360
	TTECAATGEG CAAGACGAGC GGGGACTATT TTTATGGGG		399
	(2) INFORMATION FOR SEQ ID NO: 3605:	3	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3605:	•
	ATCACTTGAG GCTAGCCCTA AAGCTATTTC GGAGAGAACC AGCTATCTCC AGGTTCGATT	60
5	GGAATTTCTC CGCTACCCTC AGTTCATCCG CTCACTTTTC AACGTAATCG GTTCGGTCCT	120
	CCATTCAGTG TTACCTGAAC TTCAACCTGA CCAAGGGTAG ATCACCTGGT TTCGGGTCTA	180
10	CGACCAAATA CTAAACGCCC TATTCAGACT CGCTTTCGCT ACGGCTCCAC ATTTACTGCT	240
,,,	TAACCTTGCA TCAAATCGTA ACTCGCCGGT TCATTCTACA AAAGGCACGC CATCACCCAT	300
	TAACGGGCTC TGGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC TCCCCTTCCG	360
15	GGGTGGCTTT TCACCTTTCC CTCACGGTAA TGGGTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 3606:	
	(i) SEQUENCE CHARACTERISTICS:	**.
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
:	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3606:	
	AAATCCTGCG GTGAGTGATC ACTAACCCGG TTCGATTCCG GTCCTCGGCA CCATTTTCAA	60
30	TAAAAACATA TGCGCCCGTA GCTCAATTGG ATAGAGCGTT TGACTACGGA TCAAGAGGTT	120
30	ATGGGTTCGA CTCCTATCGG GCGCGTTAAT TATACGGGAA GTAGCTCAGC TTGGTAGAGC	180
	ACTIGGITTG GGACCAAGGG GTCGCAGGTT CGAATCCTGT CTTCCCGATA TACTGTAATT	240
35	ATTATGGGGG CTTAGCTCAG CTGGGGAGAG CGCCTGCTTT GCACGCAGGA GGTCAGCGGT	300
	TCGATCCCGC TAGTCTCCAC CATATTATTT ACAAACTATA TAAGGCGGTG TAGCTCAGCT	360
	GGCTAGAGCG TACGGTTCAT ACCCGTGAGG TCGGGGGTTC	400
40	(2) INFORMATION FOR SEQ ID NO: 3607:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3607:	
50	GGGTGTGCTT CTGATATGCT ATGTATTCAC ATATCGATAA CATGACATAA CTCATGCTGG	60
	GTTTCCCATT CGGAAATCTC TGGATCAAAG CTTACTTACA GCTCCCCAAA GCATATCGTC	120

	TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA CATGAAGTTA CGTTCTTTTA	240
	TANAAAGATT TANACGCGTT ATTANTCTTG TGAGTGTTCT TTCGAACACT AGCGATTATT	300
5	TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCTT GGTAAAATCT	360
	ATATTITACT TACTTATCTA GTTTnCAATG TACAAATAAT	400
10	(2) INFORMATION FOR SEQ ID NO: 3608:	;
,	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
15	(D) TOPOLOGI: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3608:	
20	TAGTTTTCAA TGTACAAATA ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG	60
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCAAAT AGGTATTAAA TTAATGGTGG	120
	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG CGTGCGCTCT AACCAGCTGA	180
25	GCTATAGGCC CATTAATTTG AATGAACAAA CATTCAAAAC TGAATACAAT ATGTCACGTT	240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC	300
30	GCACCTTCCG ATACGGCTAC CTTGTTACGA CTTCACCCCA ATCATTTGTC CCACCTTCGA	360
30	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3609:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	.8
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3609:	
	AGGGCACTCT TACTGGGCGT GTTAAATTAC TAANTTCAAT CAGCAGAAGA ACTAGGACAT	60
45	GGCGCTTTTA AAATTATTGA AACACATGCA TTAAAAGATG TACAAGCAGT ATTGGGTTTT	120
	CATAATGACC CATCGCGTTC GGTAGGTACA TTTGCAATCA AAACAGGGGC AATTACATCA	180
	GCAGTAGATC GTTTTGAGTT TCATATTAAA GGCGTGGGTG GTCATGCTGC AAACCAGAAC	240
50	AATGCAACGA TCCAGTTATT GTGTTGGCGC AATTGATTAA TAGTATTCAA TCCATAGTTA	300
	GTAGAAATCT ATCTGCGTTT GATGAAGCGG TAGTAACAAT TGGACAAATA TCATGTGGTA	360

(2) INFORMATION FOR SEQ ID NO: 3610:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3610:	
	AGGGAATCGA ATTTTCTTTC TCTTCCTCCG GGTACTAAGA TGTTTCAGTT CTCCGGGTGT	60
15	GCCTTCTGAT ATGCTATGTA TTCACATATC GATAACATGA CATAACTCAT GCTGGGTTTC	120
	CCCATTCGGA AATCTCTGGA TCAAAGCTTA CTTACAGCTC CCCAAAGCAT ATCGTCGTTA	180
	GTAACGTCCT TCATCGGCTT CTAGTGCCAA GGCATCCACC GTGCGCCCTT AATAACTTAA	240
20	TOTATGTTTC CACCATTTTT ATAAGTCAAA CGCTCACATA CGGCTTCGTT TTCATTATTT	300
	TAAATGCTCA TTTACATAAG TAAACTCTGC TTTAAAATGA ATTTAACTCA TTGTCTGCTA	360
	AACGTTTTGC TTTTATAAAA AGATTTAAAC GCGTTGATTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3611:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3611:	• - e
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	60
	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	_ 120
40	GGCAACGTTC TACTCTAGCG GAANTAAGTT GNACTACCAT CGACGCTAAG GAGCTTAACT	180
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAAACATTTA	300
45	TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC ACATGTCACC ATGCTTCCAC	360
	CTCGAACCTA TTAACCTCAT CATCTTTGAG GGATCTTAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3612:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

		(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3612:	
	, 5	ACCCAGCTCG CGTACCGCTT TAATGGGCGA ACAGCAATCC CTTGGGACCG ACTACAGCCC	60
	•	CAGGATGCGA TGAGCCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG	120
	10	GAGATAAGCC TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC CTTCCATGCG	180
٠,	10	GAACCACCGG ATCACTAAGT CCGTCTTTCG ACCCTGCTCG ACTTGTAGGT CTCGCAGTCA	240
		AGCTCCCTTA TGCCTTTACA CTCTATGAAT GATTTCCAAC CATTCTGAGG GAACCTTTGA	300
	15	GNGCCTCCGT TACCTTTTAG GAGGCGACCG CCCCAGTCAA ACTGCCCGCC TGACACTGTC	360
		TCCCACCACG ATAAGTGTnC GGGGGTTAGA AAGCCAACAC	100
		(2) INFORMATION FOR SEQ ID NO: 3613:	
	20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs	
		(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
	25		
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3613:	
	30	ACTTACAGCT CCCCAAAGCA TATCGTCGTT AGTAACGTCC TTCATCGGCT TCTAGTGCAA	60
	30	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	120
		CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	180
	35	TTTAAAATAA TTTAACTCAT TGTCTGCTAA ACGTTTTCTT TTATAAAAAG ATTTAAACGC	240
		GTTATTAATC TIGTGAGTGT TCTTTCGAAC ACTAGCGATT ATTTCTTATG AATTCAAGCT	300
		TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA TCTATATTTT ACTTACTTAT	360
	40	CTAGTTTTCA ATGTACAAAT AATGGTGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC 4	20
		TTATCAGGCG TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTTTTTTGAA TGTTAAATAA 4	180
		ACATTCA 4	87
	45	(2) INFORMATION FOR SEQ ID NO: 3614:	
	, . , ;	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	•	(D) TOPOLOGY: linear	• • • •

	ACCGTACGCT CTAGCCAGCT GAGCTACACC GCCTTATATA GTTTGTAAAT AATATGGTGG	60
	AGACTAGCGG GATCGAACCG CTGACCTCCT GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG	120
5	CTAAGCCCCC ATAATAATTA CAGTATATCG GGAAGACAGG ATTCGAACCT GCGACCCCTT	180
	GGTCCCAAAC CAAGTGnTCT ACCAAGCTGA GCTACTTCCC GTATAATTAA CGCGCCCGAT	240
10	AGGAGTCGAA CCCATAACCT CTTGATCCGT AGTCAAACGC TCTAThCAAT TGAGCTACGG	300
	GCGCATATGT TTTTATTGAA AATGGTGCCG AGGACCGGAA TCGAACCGGT ACGGTGATCA	360
	CTCACCGCAG ATTTTAAGTC CTGTGCGTCT GCnAGTTCCG	400
15	(2) INFORMATION FOR SEQ ID NO: 3615:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3615:	
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
0	GTTTTAGACA TAAAAAAAGA GACCTCACGG TCTCAACTTG CCTGGCAACG TTCTACTCTA	180
	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	240
15	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	300
.5	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	360
	TTACTTTTTA TITTGACGTT TAGGCATAAA AAAAAGAGAC	400.
0	(2) INFORMATION FOR SEQ ID NO: 3616:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
n	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3616:	
0	THETGTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTATTT AAAACTCTTT	60
	ATTCACTCGG TTTTGCTTGG KAAAATCTAT ATTTTACTTA CTTATCTAGT TTTCAATGTA	120
	511 mm comp	

· 10

AAGATGTTCC GAATATATCC TTAGAAAGGA GGNGATCCAG CCGCACCTTC	CGATACGGCT	300
ACCTTGTTAC GACTTCACCC CAATCATTTG TCCCACCTTC GACGGCTAGC	TCCTAAAAGG	360
TTACTCCACC GGCTTCGGGT GTTACAAACT CTCGTnGGTG TGACGGCCGG	TGTGTACAAG	420
 (2) INFORMATION FOR SEQ ID NO: 3617:	- 1	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3617:	*	
CACTAGCGAT TATTTCTTAT GAATTCAAGC TTATTTAAAA CTCTTTATTC		60
GCTTGGTAAA ATCTATATTT TACTTACTTA TCTAGTTTTC AATGTACAAT	TTCTTTTTAG	120
TCAAGCGCTC GCATAAGCAA TATCACTTTA ACCAAAAAAT ATTTGAATGT	TAAATAAACA	180
TTCAAAACTG AATACAATAT GTCACATTAT TCCGCATCTT CTGAAGAAGA	TGTTCCGAAT	240
ATATCCTTAG AAAGGAGGTG ATCCAGCCGC ACCTTCCGAT ACGGCTACCT	TGTTACGACT	300
TCANCCCAAT CATTTGTCCC ACCTTCGACG GCTAGCTCCT AAAAGGTTAC	TCCACCGGCT	360
TCGGGTGTTA CAAACTCTCG TGGTGTGACG GGCGGTGTGT		400
(2) INFORMATION FOR SEQ ID NO: 3618:	.*	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
4T ¥		•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3618:		r.
GATATACGCT ATGGCTGGAG CAGTGTGGCC AAATGGCGGA AGACAAACGT	TTAATGCGAT	60
 ATACTTAGCG CAAAATATTG GTGTGGCTGT CGGTGCTGCA ATGGGCGGCT	TTGTCGCAGA	120
ATTTAGCTTT AACTATATCT TTTTAGCCAA TCTTATTATG TATGTTGTGT		180
CCGGTTAACn AATTTAATAT TGAAATTAAT GCGAAAGTTA AATATCCAAC	TCATTTAGAT	240
ATTACTGGTA AAAAGAATAA AGCAAGATTT ATTTCATTAG TACTAATTTG	TGCAATGTTT	300
GCAATTTGTT GGGTTGCATA TATTCAATGG GGAGTCTACA ATCGCTTCAT	TTTACACAAT	360

CTATTAATAT TTCAATGGGC ACAATATAGT GTTTTATGGG

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	··.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3619:	-
10	TCGCACGCCT TCGCCTATCC TACTGCGTCC CCCCATCGAT TAAAACGATT ATAGGTGGTA	. 60
		120
•	CAGGNAATAT CAACCTGTTA TCCATCGCCT ACGCCTGTCG GCCTCAGCTT AGGACCCGAC	7
15	TAACCCAGAG CGGACGAGCC TTCCTCTGGA AACCTTAGTC AATCGGTGGA CGGGATTCTC	180
	ACCCGTCTTT CGCTACTCAC ACCGGCATTC TCACTTCTAA GCGCTCCACA TGTCCTTACG	240
20	ATCATGCTTC AACGCCCTTA GAACGCTCTC CTACCATTGT CCAAAGGAAA TCCACAGCTT	300
20	CGGTAATATG TTTAGCCCCG GTACATTTTC GGCGCAGTGT CACTCGACTA GTGAGCTATT	360
	ACGCACTCTT TAAATGATGG CTGCTTCTAA GCCAACATCC	400
25	(2) INFORMATION FOR SEQ ID NO: 3620:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	AP .
		*
÷	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3620:	
35	TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA	. 60
	CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTTGA	120
	GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT CCACACATAG CTACCCAGCT	180
40	ATGCCGTTGG CACGACAACT GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA	240
	AGGACAGCTC CTCTCAAATT TCCTACGCCC ACGACGGATA GGGACCGAAC TGTCTCACGA	300
	CGTTCTGAAC CCAGCTCGCG TACCGCTTTA ATGGGCGAAC AGCCCAACCC TTGGGACCGA	360
45	CTACAGNCCC AAGGATGCGA TGAGCCGACA TCGAGGTGCC	400
		400
50	(2) INFORMATION FOR SEQ ID NO: 3621:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3621:	
_	CCACACCCGc AAATGGTGag CCATAGCAGG ATTCGGAACC TCTGCACCCT CTGATTAAAA	60
5	GTCAGCATGC TCTACCAACT GAGCTAATGG CTCTTCCATG GTGCCGGCCA GAGGACTTGA	120
	ACCCCCAACC TACTGATTAC AAGTCAGTTG CTCTACCAAT TGAGCTAGGC CGGCAATATG	180
10	TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA CCCTCTGCTT GTAAGGCAGA	240
	TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC	- 3,00
	GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA	360
15	ACAGGTGTGA CCTCCTTGCT ATAGTCACCA GACATATGGA ATGTAATTTA TACATTCAAA	420
	ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGT	475
F	(2) INFORMATION FOR SEQ ID NO: 3622:	*
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	ə .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3622:	
30	TGGACGAAAC TTTATATCGA TCAATTTCTA TCGAGTTGGA CAATGCCGAA GCGTGACAAA	60
	AGTTTTTACC ATGCATGGTT GCATTTAGCG CAACATGACC ATAGTTTTAC TAAAGCACAG	120
	CGCnCAAGTG ATTAAAGGCT TACCCAATGA TCCTGAAATG ACGATAGAGT CAGTATTAAC	180
<i>35</i>	TCATTTTCA ATAGATCAGG AAGACTACCA AGCTTATGTT GAAGGACATC TTTTGGCGTT	240
	ACCEGETTEE GCAGGTATET TETATTACCE TTCACAACAG CATCACTTTE AACAACATTT	300
40	GTTAACGGAT TATTTGGCAA TTCGGTTAGT TGTCGAACAA TTGCTAGTTG GTGGATGAGT	360
	TTTAAGTCAG TCGCTAAAGA TTGTGGAAAG TAAGATCCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3623:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3623:	
	TACATOCTUTE CALACTERATO COCTOCARCAC AMERICONACIO ACCURATOCCO TOTAL	

	ATTTCCTACG CCCACGACGG ATAGGGACCG AACTGTCTCA CGACGTTCTG AACCCAGCTC	180	
	GCGTACCGCT TTAATGGGCG AACAGCCAAC CCTTGGGACC GACTACAGCC CCAGGATGCG	240	
5	ATGACCGACA TCGAGGTGCC AAACCTCCCC GTCGATGTGA ACTCTTGGGG GAGATAAGCC	300	
	TGTTATCCCC GGGGTAGCTT TTATCCGTTG AGCGATGGCC TTCCATGCGG GAACACCGGA	360	
	TCACTAAGTC CGTCTTTCGA CCCTGCTCGA CTTTGTAGGn	400	
10	(2) INFORMATION FOR SEQ ID NO: 3624:		
15 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3624:		
	GAGCTAGGCC GGCAATATGT AAGAATAAAT GGTGGAGAAT GACGGGTTCG AACCGCCGAC	60	
oc.	CCTCTGCTTG TAAGGCAGAT GCTCTCCCAG CTGAGCTAAT TCTCCGATTT AAAACTGCCT	120	
25	GGCAACGTTC TACTCTAGCG GAANTAAGTN GNACTACCAT CGACGCTAAG GAGCTTAACT	180	
	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240	Ÿ
30	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TTTGCTTCGC AAACATTTAT	300	·4.
	TTTGATTAAG TCTTCGATCG ATTAGTATTC GTCAGCTCCA CATGTCACCA TGCTTCCACC	360	٠.
	TCGAACCTAT TAACCTCATC ATCTTTGAGG GGATCTTATA	400	, j
35	(2) INFORMATION FOR SEQ ID NO: 3625:		*# #
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs		Ä
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	•	
	(D) TOPOLOGY: linear		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3625:	•	
	TTAAAGAACG CTAATAACTG ATCGTAACCA CTATATATAT TGTTGTGACC TCTAACAGCA	60	
	TAATGTCTAA ATGTTTGTGG GATATATTGA AGCAATCCTT TTGCTGGATT GCCCTGTAAA	120	
50	ACGTTGATGT CTCTAAGCGA ACTAGATTGA GTTATACCTG CATTTCCTCC TGATTCGTGT	180	
	TGAATCAAGC TAATGATATT TCCTACGTCA GCCGAAGTAA CATTAACACC CATTCGTTTT	240	
	GCTGCACGAC GTATATCGCC TGCCCAAGCA GATGCAGCCT TATTAACACC TGAACCACTT	300	

55

400

CCTGGATGCG ACCCTTGCAT CANTTGGGAA ATGTANGTGT

	(2) INFORMATION FOR SEQ ID NO: 3626:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		a + m+
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3626:	
15	GATTGTGGTT CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCCTTATT ATTAATGGGC	60
	TATAGCCAAG CGGTAAGGCA ACGGACTTTG ACTCCGTCAC TCGTTGGTTC GAATCCAGCT	120
-	AGCCCAGTTA TTGGCGGCAT AGCAAGTGGT AAGGCAGAGG TCTGCAAAAC CTTTATCACC	180
20	GGTTCAAATC CGGTTGCCGC CTCCAGGTTT ATGCGGGAGT AGTTCAACTT TTAGAACACG	240
	TTCCTTCCCG GAAGAGGTAT AGGTGCAAAT CCTATCTTCC GCTCCATAAT TTAATAATAA	300
25	TGCGGGAGTA TTTCAACTCT TAGAATACAT TCCTTCCTGG AATGAGGTAT AGGTGTAAAT	360
	CCTATCTTCC GCTCCATAAT TTAATATTTG CGGGAGTAGT TCAACTTTTA GAAACAGCTC	420
	CTTCCCGGAA CCGAGGTATA GGTGTAAATC CTATCTTCCG C	461
30	(2) INFORMATION FOR SEQ ID NO: 3627:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3627:	
40	TGCGGTCTCA ATGCGGCTCA TCGCATCCAT TTTTTGCCTG GCAACGTTCT ACTCTAGCGG	60
	AACGTAAGTT GGCTNANATC GACGCTAAGA ACCTTTCTTG ACTTGTGACA ATCGCTTGCT	120
45	TCTTTCCTCT TCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	180
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTCT TTGTGTTTGC	240
	TTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA TGCGGCTCAT	300
60	CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC GACTACCATC	360
	GACGCTAAGG GAGCTTAACT TCTGTGTnCG GGCATGGGGG	400
55	(2) INFORMATION FOR SEQ ID NO: 3628:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: doubl (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3628:	
10	ATGCTTTCAG CACTTATCCC GTCCACACAT AGCTACCCAC CTATGCCGTT GGCACGACAA	60
	CTGGGTACAC CAGAGGTATG TCCATCCCGG TCCTCTCGTA CTAAGGACAG CTCCTCTCAA	120
	ATTTCCTACG ACCCACGACG GATAGGGACC GAACTGTCTC ACGACGTTCT GAACCCAGCT	180
15	CGCGTACCGC TTTAATGGGC GAACAGCCCA ACCCTTGGGA CCGACTACAG CCCCAGGATG	240
	CGATGAGCCG ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA	300
	GCCTGTTATC CCCGGGGTAG CTTTTATCCG nTGAGCGATG GGCCTTCCAT GCGGNACCAC	360
20	CGGnTTACTA AGTCCGTCTT TCGAnCCTGC TCGACTTGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3629:	•
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
30 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3629:	
	TITATAAATA TCCCAGTCTG AACGCGATTC CCATAACGGA TCAATGGCAG GATTGAAAGG	60
35	ATGTACATAT GGATGCATAT CCGTTGATGA TAAATCATGT TTTTCATACC AAGTCGCTGC	120
	CGGCAAAACA ATGTCAGAAT ATAACGGTGT TGCCGTCATT CTGAAGTCTA AAGAGACCAC	180
40	TARATCTARC TTACCTGTTG TTTCTTCACG CCACGTARTT TCTTCTGGCT TTTCATCTTC	240
	ATTTGGTGTA GCTAATAACC CTGATTTTGT GCCAAGTAAA TGCTTCATAA AGTATTCTTG	300
	ACCITITGCA GAACIIGAAA IIAAGIIIGA ACGCCATATA AATAAIGAII TIGGAIGAII	360
45	CTNTTCAAA TCAGGATCTT CTATTGCAAA TGGGGTTTGT	400
	(2) INFORMATION FOR SEQ ID NO: 3630:	•
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 589 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	* .
<i>65</i>		

	TITAAGIIGI RGATTAAAA TATTAATAAA GIGTAAATTI GACTATIGAN ATTCKIACAA	. 60
	ATACATATTA AAATAATATT TGTTGAATTA ATTGAGTTAG GAAATTTATT TTTTAGAAAT	120
5	AAAATAATTA AAAATAATTC TTGACTTACA AAAACTTACG AGTTATAATT AAATCTTGTA	180
	AGTGACAAAC GAACATTGAA AACTGAATGA CAATATGTCA ACGTTAATTC CAAAAACGTA	240
0 .	ACTATAAGTT ACAAACATTA TTTAGTATTT ATGAGCTAAT CAAACATCAT AATTTTTATG	300
	GAGAGTTTGA TCCTGGCTCA GGATGAACGC TGGCGGCGTG CCTAATACAT GCAAGTCGAG	360
	CGAACGGACG AGAAGCTTGC TTCTCTGATG TTAGCGGCGG ACGGGTGAGT AACACGTGGA	420
5	TAACCTACCT ATAAGACTGG GATAACTTCG GGAAACCGGA GCTAATACCG GATEATATTT	480
	TGAACCGCAT GGTTCAAAAG TGAAAGACGG TCTTGCTGTC ACTTATAGAT GGATCCGCGC	540
	TGCATTAGCT AGTTGGTAAG GTAACGGCTT ACCAAGGCAA CGATGCATA	589
0	(2) INFORMATION FOR SEQ ID NO: 3631:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with groupings programmer, group No. 2621	,
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3631:	
• 0 •	CCAACTGAGC TAATGGCTCT TCCATGGTGC CGGCCAGAGG ACTTGAACCC CCAACCTACT	60
5	GATTACAAGT CAGTTGCTCT ACCAATTGAG CTAGGCCGGC AATATGTAAG AATAAATGGT	120
	GGAGAATGAC GGGTTCGAAC CGCCGACCCT CTGCTTGTAA GGCAGATGCT CTCCCAGCTG	180
	AGCTAATTCT CCGATTTAAA ACTGCCTGGC AACGTTCTAC TCTAGCGGAA CGTAAGTTCG	240
0	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG GTGTGACCTC	300
	CTTGCTATAG TCACCAGACA TATGAATGTA ATTTATACAT TCAAAACTAG ATAGTAAGTA	360
	AAAGTGATTT GCTTCGCAAA ACATTTATTT TGATTAAGTC	400
5	(2) INFORMATION FOR SEQ ID NO: 3632:	
o	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 3632:

	TTCCACCATT TTTATAAGTC AAACGTTAAC ATGAAGTTAC GTTCTTTTAT AAAAAGATTT	120
	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT CTTATGAATT	180
5	CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA TATNTTACTT	240
	ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA ACCGCTGACC	300
10	TCCTGGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAN GCCCCCANAT AGGTATTAAA	360
	TTAATGGGGG GGCCTAAGTG GACTCGAACC ACCGACCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 3633:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3633:	
25	ATATGTCAAC GTTAATTCCA AAAAACGTAA CTATAAGTTA CAAACATTAT TTAGTATTTA	60
	TGAGCTAATC AAACATCATA ATTTTTATGG AGAGTTTGAT CCTGGCTCAG GATGAACGCT	120
	GGCGGCGTGC CTAATACATG CAAGTCGAGC GAACGGACGA GAAGCTTGCT TCTCTGATGT	180
30	TAGCGGCGGA CGGGTGAGTA ACACGTGGAT AACCTACCTA TAAGACTGGG ATAACTTCGG	240
	GAAACCGGAG CTAATACCGG ATAATATTTT GAACCGCATG GTTCAAAAGT GAAAGACGGT	300
	CTTGCTGTCA CTTATAGATG GATCCGCGCT GCATTAGCTA GTTGGTAAGG TAACGGCTTA	360
35	CCAAGGCNAC GATGCATAGC CGACCTGAGA NGGTGATCGG	400 ₺
	(2) INFORMATION FOR SEQ ID NO: 3634:	 ."***
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3634:	
	TGAGCTAGGC CGGCAATATG TAAGAATAAA TGGTGGAGAA TGACGGGTTC GAACCGCCGA	60
50	CCCTCTGCTT GTAAGGCAGA TGCTCTCCCA GCTGAGCTAA TTCTCCGATT TAAAACTGCC	120
	TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGACTACC ATCGACGCTA AGGAGCTTAA	180
	ርተምርተምርተም ርረርርአምርርርአ እርእርርፕሮፕርአ ርርምርርፕፕሮርርፕ ልቸልርፕርእርርል ርልርልጥልፕርልል	240

	TATTTTGATT AAGTCTTCGA TCGATTAGTA TTCGTCAGCT CCACATGTCA CCATGCTTCC	360
	ACCTCGAACC TATTAACCTC ATCATCTTTG AGGGATCTTA	400
5 .	(2) INFORMATION FOR SEQ ID NO: 3635:	
•	(i) SEQUENCE CHARACTERISTICS:	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3635:	
•	TTGTGACAAT CGCTTGCTTC TTTCCTCTCC TTCGGCTCTC GCTTACTCAT TTAGCTCTAC	60
	TARACTOGTT GOGGTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	120
20	ATTTTTTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC	180
	GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA	240
25	CGTAAGTTGG GCTACCATCG ACGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	300
	CTTTCCTCTT CTTCGGCTCT CGCTTACTCA TTTAGCTCTA CTAAACTCGT TGCGCTCTTT	360
٠	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC	400
30	(2) INFORMATION FOR SEQ ID NO: 3636:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
33	(D) TOPOLOGY: linear	0
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3636:	
40	TACTTATCTA GTTTTCAATG TACAATTTCT TTHTAGTCAA GCGCTCGCAT ACTGATTTTC	60
	AAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT ATTTTTCTTA ATGCATTGTC	120
45	TAACAACCGC TTTCTTTAAA AAGAATAGAT TGTCAAGCGC TCGCATAAGC AATATCACTT	180
	TAACCAAAAA ATATTTGAAT GTTAAATAAA CATTCAAAAC TGAATACAAT ATGTCACGTT	240
	ATTCCGCATC TTCTGAAGAA GATGTTCCGA ATATATCCTT AGAAAGGAGG TGATCCAGCC	300
50	GCACCTTNCG ATACGGCTAC CTTGTTACGA CTTCACCCCA nTCATTTGTn CCACCTTCGA	360
	CGGCTAGCTC CTAAAAGGTT ACTCCACCGG CTTCGGGTGT	400
55	(2) INFORMATION FOR SEQ ID NO: 3637:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3637:	
10	AGCGCTCGCA TAAGCAATAT CACTTTAACC AAAAAATATT TGGAATGTTA AATAAACATT	60
	CAAAACTGDA ATACAATATG TCACATTATT CCGCATCTTC TGAAGAAGAT GTTCCGAATA	120
	TATCCTTAGA AAGGAGGTGA TCCAGCCGCA CCTTCCGATA CGGCTACCTT GTTACGACTT	180
15	CACCCCAATC ATTIGTCCCA CCTTCGACGG CTAGCTCCTA AAAGGTTACT CCACCGGCTT	240
	CGGGTGTTAC AAACTCTCGT GGTGTGACGG GCGGTGTGTA CAAGACCCGG GAACGTATTC	300
20	ACCGTAGCAT GCTGATCTAC GATTACTAGC GATTCCAGCT TCATGTAGTC GAGTTGCAGA	360
	CTACAATCCG AACTGAGAAC CACTTATGGG ATTGCCTnAC	400
	(2) INFORMATION FOR SEQ ID NO: 3638:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3638:	
35	TTCTCCGATT TAAAACTGCC TGGCAACGTT CTACTCTAGC GGAAGTAAGT CGANCTACCA	60
33	TCGACGCTAA GGAGCTTAAC TTCTGTGTTC GGCATGGGAA CAGGTGTGAC CTCCTTGCTA	. 120
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	180
40	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	240
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	300
	AACCGAAGTT GGGGAAATCT CATCTTGAGG GGGGCTTCAT GCTTAGATGC TTTCAGCACT	360
45	TATCCCGTCC ACACATAGCT ACCCAGCTAT GCCGTTGGCA	400
	(2) INFORMATION FOR SEQ ID NO: 3639:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	i)

	ATGTCTCTAA CGCCTTTAAT AGTATTGAAC ACAATTGGGA AAAAAGCAGC GATAAAAATA	60
	ATCGCAATCG CTGGCAAACT ACCAATACCA AACCATAGAA CAACAAATGG TGCCCATGCT	120
5	ATCGGAGATA TCGGCCTAAT CAATTGAAAT AGCGGTTCGA TAGCGTTGTA TAGCCAACGA	180
	TTCCTTCCAA GCAAGAAGCC CAATGGAATA GCAACCAACA ATGCGACAAC AAAGCCCGCT	240
	ACAAATCTCC ATAAACTAAT TGCTAAATGT TGGAAAATTT CTCCAGTAAC AATGAAAGAC	300
10	CATATACTTT TTCCTACAAG AGCAGGACCC GGTAACAATA CAGGTTGGTA ATGCCCAATA	360
	ATAATGACCA TTTCCCAAAT GCCTAAGAAA ATAATAAATG TGATAATAGG TAATATAAAT	420
15	TTGTTATTTG TGGGACGTGT CATGAACGCG ATGCCTCCTT ATACAATGAC GGTTCAACAA	480
,,-	AGTCATCCAT ATGCAGGTGG ATTAAACAAA TGATGTTGTT TTACCANGTC GTAATTTCCT	540
.*	GATAGCCGGA T	551
20	(2) INFORMATION FOR SEQ ID NO: 3640:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3640:	
30	CACTAAACTA AATTAATGAA GTGCCTTATG TATAAAAATT ATAACTTGAT CCAACTTACA	60
	CTACCAATAG AAACTTCTGT TAGAATTCCT CAAATTGATA TTTCGCGATA TGTTAATGAA	120
35	ATTGTTGAAA CGATACCTGA TAGCGAATTC GATAAATTCA GACATCATCG TGGCGCAACA	180
33	TCCTATCATC CAAAAATGAT GTTAAAAATC ACCTTATATG CATATACTCA ATCTGTATTT	240
	TCTGGTCGTA GAATAGAGAA ATTACTTCAT GACAGTATTC GAATGATGTG GTTAGCTCAA	300
40	AATCAAACAC CTTCTTATAA AACTATTAAT CGTATTAGAG TGAATCCTAA TACTGATGCG	360
	TTAATTGAAT CTTTATTTAT CCAGTTTCAT AGTCAATGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3641:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 398 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
JU .		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3641:

	GATTGTCCTT TGGcAATGGT AGGAGAGCGT TCTAAGGGCG TTGAAGCATG ATCGTAAGGA	120
	CATGTGGAGC GCTTAGAAGT GAGAATGCCG GTGTGAGTAG CGAAAGACGG GTGAGAATCC	180
5	CGTCCACCGA TTGACTAAGG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC	240
	CTAAGCTGAG GCCGACAGNG TAGGCGATGG ATAACAGGTT GATATTCCTG TACCACCTAT	300
	AATCGTTTTA ATCGATGGGG GGrCGCATAG GATAGGCGAA CGTTGCGATT GGATTGCACG	360
10	TCTAAGCAGT AAGGCTGGAG TATTAGGCAA ATCCGGTA	398
	(2) INFORMATION FOR SEQ ID NO: 3642:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3642:	
	TAATGTCTAC ACTTTGCTTG CGATCATTCA TTTTAAAGCC AGACTTTTTA TAATCTTGTA	60
25	CARATGCTTG CGCTACATCC TTGTGTTGAT CAAGCAATTC CCCTCTCAGT ACTAGCACAC	120
	AGCAATACGC ATCAGGLATA ACGTCATCAC CATGTTTCAA AGTCTTACCT TTGCCTAACT	180
30	TTTCACCCAG TGCACCGAAT GGTTCGGCTA CAGAATACCC TGTAATTCTG TGTTCACTCA	240
30	ATGCGGCTGG CATTTCTGCT GGCGACATTT CATGATAGCT AAAATGCCCC GGTTTAATCT	300
	TTAATTGTTT ACGTAATTCC TCAAGTAAAA GATAATGTGL TGAATAACGA TGTGGLATAC	360
35	CAAAATGGKA ATCATCGCCA TTALTATTAA ATTCaTTTAA GTGCATACCT TTTTGTCCCA	420
	TAATGACATT GCCTTCATG	439
	(2) INFORMATION FOR SEQ ID NO: 3643:	•
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3643:	
	ATTTCTTATG AATTCAAGCT TATTTAAAAC TCTTTATTCA CTCGGTTTTG CTTGGTAAAA	60
50	TCTATATTTT ACTTACTTAT CTAGTTTTCA ATGTACAAAT AATGGTGGAG ACTAGCGGGA	120
	TCGAACCGTG ACCTCCTGCG TGCAAAGCAG GCGCTCTCCC AGCTGAGCTA AGCCCCCAAA	180

	GCGTGCGCTC TAACCAGCTG AGCTATAGGC CCATTAATTT GAATGAACAA ACATTCAAAA	300
. · · · · ·	CTGAATACAA TATGTCACGT TATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT	360
5	TAGAAAGGAG GTGATCCAGC CGCACCTTnC GATACGGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3644:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· · · · · · · · · · · · · · · · · · ·
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3644:	•
·	GCGAAACTGT ACGGAGCAAC GCCGCGTGAG TGATGAAGGT CTTCGGATCG TAAAACTCTG	60
20	TTATTAGGGA AGAACATATG TGTAAGTAAC TGTGCACATC TTGACGGTAC CTAATCAGAA	120
	AGCCACGGCT AACACGTGCC AGCAGCCGCG GTAATACGTA GGTGGCAAGC GTTATCCGGA	180
	ATTATTGGGC GTAAAGCGCG CGTAGGNGTT TTTTAAGTCT GATGTGAAAG CCCACGGNTC	240
25	AACCGTGGAG GGTCATTGGA AACTGGAAAA CTTGAGTGCA GAAGAGGAAA GTGGAATTCC	300
•	ATGTGTAGCG GTGAAATGCG CAGAGATATG GAGGAACACC AGTGGCGAAG GCGACTTTCT	360
	GGTCTGTAAC TGACGCTGAT GTGCGAAACG TGGGGATCA	399
30	(2) INFORMATION FOR SEQ ID NO: 3645:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3645:	
	TATTATACTT TACATTTCTC GTTTCGTCAG ATTCAAACGT TTTCACTTCG CCAAGCCATC	60
	TTTCTTTGTG TTTGCTTTTA TTTTGACGTT TTAGACATAA AAAAAGAGAC CTTGCGGTCT	120
45	CAATGCGGCT CATCGCATCC ACTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	180
	THOGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	240
	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAAATNAT ACATTCAAAA CTAGATAGTA	3,00
50	AGTAAAAGTG GATTTTGCTT CGCAAAACAT TTATTTTGGA TTAAGTCTTC GATCGGATTA	360
•	GTATTCGTCA GCTCCACATG TCACCATGGC TTCCACCTCG	400
	,	

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 758 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3646:	
10	AGATAAGTAA GTAAAATATA GATTTTACCA AGCAAAACCG AGTGAATAAA GAGTTTTAAA	6
	TAAGCTTGAA TTCATAAATA ATCGCTAGTG TTCGAAAGAC ACGARCAAGA TTAATAACGC	120
15	GTTTAAATCT TTTTATAAAA GAACGTAACT TCATGTTAAC GTTTGACTTA TAAAAATGGT	180
٠.	GGAAACATAG ATTAAGTTAT TAAGGGCGCA CGGTGGATGC CTTGGCACTA GAAGCCYATG	240
	AAGGACGTTA CTAACGACGA TATGCTTTGG GGAGCTGTAA GTAAGCTTTG ATCCAGAGAT	300
20	TTCCGAATGG GGAAACCCAG CATGAGTTAT GTCATGTTAT CGATATGTGA ATACATAGCA	360
	TATCAGAAGG CACACCCGGA GAACTGAAAC ATCTTAGTAC CCGGAGAAGA GAAAGAAAAT	420
	TCGATTCCCT TAGTAGCGGC GAGCANAACG GGAAGAGCCC AAACCAACAA GCTTGCTtGg	480
25	GGGTnTGTaG GACACTCTAT ACGGATTACA AAGGACGACA TTAGACGAAT CATCTGGaAA	540
, .	GATGAATCAA AGAAGGTAAT AATCCTGTAG TCGAAAATGT TGTCTCTCTT GAGTGGATCC	600
30	TGAGTACGAC GGAGCACGTG AAATTCCGTC GGAATCTGGG GAGGACCATC TCCTAAGGCT	660
	AAATACTCTC TAGTGACCGA TAGTGGAACC AGTACCGTGA GGGAAAGGTG AAAAGCACCC	720
	gGAAgGnAGT TGAAATaGAA ctGGAAACCG TGTGCTTA	758
35	(2) INFORMATION FOR SEQ ID NO: 3647:	Ĭ
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
		;-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3647:	
45	ACAAACTCCG AATGCCAATT AATTTAACTT GGGAGTCAGA ACATGGGTGA TAAGGTCCGT	60
	GTTCGAAAGG GAAACAGCCC AGACCACCAG CTAAGGTCCC AAAATATATG TTAAGTGGAA	120
	AAGGATGTGG CGTTGCCCAG ACAACTAGGA TGTTGGCTTA GAAGCAGCCA TCATTTAAAG	180
50	AGTGCGTAAT AGCTCACTAG TCGAGTGACA CTGCGCCGAA AATGTACCGG GGCTAAACAT	240
	ATTACCGAAG CTGTGGATTG TCCTTTGGnA TGGGTAAGGA GAGCGTTCTA AGGGCGTTGA	300
55		

	AAGACGGGTG AGAATCCCGT CCACCGATTG ACTAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 3648:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 521 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
,,		
-	en de la companya de	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3648:	
15	GTCATTGGAA ACTGGAAAAC TTGAGTGCAG AAGAGGAAAG TGGAATTCCA TGTGTAGCGG	60
	TGAAATGCGC AGAGATATGG AGGAACACCA GTGGnCGAAG GCGACTTTCT GGTCTGTAAC	120
	TGACGCTGAT GTGCGAAACG TGGGGATCAA ACAGGATTAG ATACCCTGGT AGTCCACGCC	180
20	GTAAACGATG AGTGCTAAGT GTTAGGGGGT TTCCGCCCCT TAGTGCTGCA GCTAACGCAT	240
	TAAGCACTCC GCCTGGGGAG TACGACCGCA AnGTTGAAAC TCAAAGGAAT TGACGGGGAC	300
25	CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC TTACCAAATC	360
	TTGACATCCT TTGACAACTC TAGAGATAGA GCCTTCCCCT TCGGGGGACA AAGTGACAAG	420
	TGGTGCATGG TGTCGTCAAC TCCTGTCGTT GAGATGTTGG GGTAAnTCCC CGCAAnGAGC	. 480
30	GCACCCTTAA GCCTTAGTTT nCATCATTAA GTTGGGCACT C	521
	(2) INFORMATION FOR SEQ ID NO: 3649:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: Timear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3649:	
	CCAAAGTTCA TCTTTTACGA ATGAGAAATA GGTGTTGCAT ATTCAATGGT CTCATCTTGT	60
	TTATAAAAGC CACCATCTAA ATCACTAATC CATTGTGGTA AGTCTCCAAG TTCGTCTTCC	120
45	ATACGTGTTT TAACACGTTC GTATCCCATT GCATCCCATA ATTGGAATGG ACCAAGTTTC	180
	CAGTTGAACC CCCAGACAAG CGCACGGTCT ATGTCTCGGA AATCATCGGT AGCTTTAGGT	240
50	ACATTGATAG CAGAGTAATA GAAATTATTA CGTAATGTCT CCCATAAAAA TAGTCCCGCT	300
	TCGTCTTGcG CATTGAATAT GGTATCAAKG TTATGCACTA AGTCTTTATT AAATTCATTT	360
	AAAATTGGTA ATTGTGGTTG CGATACAGGT ACATAATCTT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3650:	
10		60
	GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGn CCGTTAAGGC	
	CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC ATTATTATAG	120
15	GTAAATCGCT ATTAATTATA AAATTAAATG GCGGTCTCGA CGGGAATCGA ACCCGCGATC	180
	TCCTGCGTGA CAGGCAGGCG TGTTAACCGC TACACTACGA GACCATTAGT AAAACGGAGG	240
	AAGAGGGATT CGAACCCCCG CGAGCCGTTA AGCCCCTGTC GGTTTTCAAG ACCGATCCCT	300
20	TCAGCCGGAC TTGGGTATTC CTCCAAAATT ATATGGACCT TGCAGGACTC GAACCTGCGA	360
	CCGAACGGTT ATGGAGCCGT TAGCTCTAAn CAACTTGAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3651:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double T. (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3651:	
		60
35	TGGCGCTGTG CTTTAGTAAA ACTATGGTCA TGTTGCGCTA AATGCAACCA TGCATGGTAA	
	AAACTTTGCT CACGCTTCGG CATTGTCCAA CTCGATAGAA ATTGATCGAT ATAAAGTTTC	120
	GTCCATTTAA TCATTTGACG ATTCACTTGT TCGCTAAGTG GCTCACCTTG TTCATCTATT	180
40	ATTGCATCAC TCATCGGACG TACATCATAG TGATGATATG ATTCAGCCAT ATCACGTTTT	240
	GATTTTCTA ATAGTAGATC AGCAACAACA TCAACATTTG AATGATTCAT ATATGATGGC	300
	AGGTACGTCT TTTAATGTTT TAATGTTATC AATATAAGA TGATGTAGTG TTGCGGGATA	360
45	TGTAGTGANG TTCAAGTAAC ATATCAGTAA CAAGTTGATT	400
	(2) INFORMATION FOR SEQ ID NO: 3652:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

.

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3652:	-
	CATTGTCCAA AGGACAATCC ACAGCTTCGG TAATATGTTT AGCCCCGGTA CATTTTCGGC	60
5 .	GCAGTGTCAC TCGACTAGTG AGCTATTACG CACTCTTTAA ATGATGGCTG CTTCTAAGCC	120
	AACATCCTAG TTGTCTGGGC AACGCCACAT CCTTTTCCAC TTAACATATA TTTTGGGACC	180
	TTAGCTGGTG GTCTGGGCTG TTTCCCTTTC GAACACGGAC CTTATCACCC ATGTTCTGAC	240
10	TCCCAAGTTA AATTAATTGG CATTCGGAGT TTGTCTGAAT TCGGTAACCC GAGAGGGGCC	300
A 1 1 (a	CCTCGTCCAA ACAGTGCTCT ACCTCCAATA ATCATCACTT GAGGGCTAGC CCTAAAGCTA	360
	ATTTCGGAGA GAACCAGCTA TCTCCAGGTT CGATGGAATT	400
15	(2) INFORMATION FOR SEQ ID NO: 3653:	
(-	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
• 0	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3653:	
	GGTTCGGTCC TCCATTCAGT GTTACCTGAA CTTCAACCTG ACCAAGGGTA GATCACCTGG	60
Te .	TTTCGGGTCT ACGACCAAAT ACTAAACGCC CTATTCAGAC TCGCTTTCGC TACGGCTCCA	120
30 -	CATTTACTGC TTAACCTTGC ATCAAATCGT AACTCGnCGG TTCATTCTAC AAAAGGCACG	180
	CCATCACCCA TTAACGGGCT CTGACTACTT GTAAGCACAC GGTTTCAGGT TCTATTTCAC	240
	TCCCCTTCCG GGGTGCTTTT CACCTTTCCC TCACGGTACT GGTTCACTAT CGGTCACTAG	300
<i>35</i>	AGAGTATTTA GCCTTAGGAG ATGGTCCTCC CAGATTCCGA CGGAATTTCA CGTGCTCCGT	360
	CGTACTCAAG NATCCACTCA AGAGAGACAA CATTTTCGAC	400
40	(2) INFORMATION FOR SEQ ID NO: 3654:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	. *
45	(D) TOPOLOGY: linear	
*		3
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3654:	
50	AAAGGTCCTA AATATAATTT TACAACTAAT AAATAGTGGC GGTGGAGGGG ATCGAACCCC	60

	GCGCTCTCCC AGCTGAGCTA AGCCCCCATA ATAATTACAG TATATCGGGA AGACAGGATT	240
	CGAACCTGCG ACCCCTTGGT CCCAAACCAA GTGCTCTACC AAGCTGAGCT ACTTCCCGTA	300
5	TAATTAACGC GCCCGATAGG AGTCGAACCC ATAACCTCTT GATCCGTAGT CAAACGnTCT	360
	ATCCAATTGA GCTACGGGCG CATATGTTTT TATTGAAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3655:	
10 15 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3655:	•
20	TATTGAAGCC TGAGTCAACA CGTACGCAAA TCGATCAAAT CATCGATGAA GCGAAACATA	60
	CAATTTTAAA TCTGTATGTG TGAATCCAAC ACATGTTAAA TATGCAGCAG AGCnnCTAGC	120
÷	TGATTCAGAG GTGCTCGTTT GTACGGTAAT AGGATTCCCA TTAGGTGCGT CGACAACTGC	180
25	AACGAAAGCA TTTGAAACAG AAGATGCAAT TCAAAATGGT GCAGATGAAA TTGACATGGT	240
	CATCAACATC GGCGCATTAA AAGATGGACG TTTTGATGAT GTACAACAAG ACATTGAAGC	300
	AGTGGTTAAA GCTGCGAAAG GTCACACAGT AAAAGTGGAT TATTGAGACG GTATTGTTGG	360
30	GACCATGACG AAATTGTAAA AGCGAGTGGA ATTAACCAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3656:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3656:	
	GATGAGTCGC TGnCTGATCT GAACGCTGTC TGAGnCCGAA CGCTACTGAA CTGAGTCGCT	60
15	GTCTGAGTCT GAATCGCTAT CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTGTCTGA	120
	GTCTGAGTCG CTGTCTGAGT CTGAATCGCT ATCTGAATCT GAGTCGCTGT CTGAGTCTGA	180
	GTCGCTATCT GAGTCTGAGT CGCTGTCTGA ATCTGAGTCG CTGTCTGAAT CTGAATCGCT	240
50	GTCTGAGTCT GAATCGCTAT CTGAGTCTGA ATCGCTATCT GAGTCTGAAT CACTGTCTGA	300
	GTCCGAGTCA CTGTCTGAAT CTGACTCACT ATCTGATTCT GAGTCGCTAT CTGATTCTGA	360

	ATCTGAACCT GAGTCGCTGT CTGAGCCTGA AGTCACTGGT CTGAATCCGA ATCCGGATCC	480
5	GGGTCTGGGG CTTGGGTTCC GGTTCTGGGT CTGGGACTTG GGTTCTGGGA	530
	(2) INFORMATION FOR SEQ ID NO: 3657:	
	(i) SEQUENCE CHARACTERISTICS:	8 84.
	(A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
·	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3657:	
	GTTTTAACTA CGCAAGACAT CGAAGAAGCT GACGGTGTCA TAATTGCAGC TGATAAACAA	60
	GTTGATCTGT CCCGATTTGT TGGTAAACGG TTGATTAATG AAAATGTTCG CGAAGGGATT	120
20	CATAATCCGA GAGGTCTAAT TCAACGTATC ATTAATCAAG ATGCGCCTAT TTATCAATCT	180
	GAAACAAATT ATCATTCGAA AGATCGCGGT AAGTCTAAAA ATGGTATTCA AATGGTGTAT	240
25	CAACATTTAA TGAACGGTGT ATCGTTTATG GTTCCTTTTA TCGTAGTTGG TGGACTCCTT	300
	ATCGCCATCG CGCTGGACTC TAGGCGGTGA ACGACATCAA AAGGATTAGT CATCCCAGAT	360
	GGATTCATTT TGGGAAATCC ATTGGAAAAC ATTGGGTAGT	400
30	(2) INFORMATION FOR SEQ ID NO: 3658:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 668 base pairs (B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3658:	
40	GAAGAAGTTT ATGAAACGGT TATGAATAAG CCATACACTA GATATCCAGT GTACGAGGGA	60
	GATATTGATA ACATTATTGG GGTGTTTCAT TCTAAATATC TGTTGGCTTG GAGTAATAAA	120
	AAAGAAAATC AAATTACAAA CTATTCAGCT AAGCCATTAT TTGTGAATGA ACACAATAAA	180
45 -	GCTGAATGGG TATTACGTAA GATGACTATT TCTAGAAAAC ATTTAGCAAT TGTGTTGGAC	24.0
	GAATTTGGTG GTACTGAAGC GATAGTGTCA CATGAAGACT TAATTGAAGA ATTATTAGGT	300
50 50	ATGGAAATTG AAGATGAGAT GGATAAAAAG GAAAAAGAAA AACTTTCTCA ACAGCAAATT	360
	CMATTTCAAC AACGGAAAAA TCGCMACGTA TCTATATAAG GNGCGAACAG CTATGTGGTA	420
	ATAAGAATCG ACTTACTCAA ATGTTAAGTA TTGAATATCC AATTATACAA GCAGGTATGG	480

*.	TAGGCGCGGT TACTTTAATA CGCAGCAATT GGAAGATGAA ATAGATTATG GTACGCCAAT	600
	TAACGTCAAA TTCTTTTGGC GTAAATGTCT TTGGTACCAA GTCAACAATC ATATACCAGT	660
5	AGTCAAAT	668
	(2) INFORMATION FOR SEQ ID NO: 3659:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
,,,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3659:	
	AAAAGAATGG TAAGTTGAAT AAAGTATTGA AATCAATTGC CAATATCTTT ATACCGTTGA	60
20	TTCCTGnATT TATTGGAGCT GGATTAATTG GTGGTATTGC AGCAGTACTG AGTAACTTAA	120
	TGGTGGCAGG CTATATTTCA GGTGCTTGGA TTACGCAACT TATAACAGTA TTTAATGTCA	180
	TTAAAGACGG TATGTTAGCA TACTTAGCTA TTTTCACTGG TATTAATGCG GCTAAAGAAT	240
25	TTGGTGCGAC ACCAGGACTT GGTGGCGTGA TTGGTGGTAC AACGTTATTA ACGGGTATTG	300
	CTGGTAAAAA TATTTTAATG AATGTCTTCA CTGGAGAACC ATTGCAACCT GGACAANGTG	360
	GGATTATTGG CGTTATTTTG CCGTTTGGAA TTTAAGTAAT	400
30	(2) INFORMATION FOR SEQ ID NO: 3660:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3660:	
	CTGAGCTAAT GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GAACCCCCAA CCTACTGATT	60
	ACAAGTCAGT TGCTCTACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG	120
45	AATGACGGGT TCGAACCGCC GACCCTCTGC TTGTAAGGCA GATGCTCTCC CAGCTGAGCT	180
	AATTCTCCGA TTTAAAACTG CCTGGCAACG TTCTACTCTA GCGGAACGTA AGTTCGGACT	240
	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	300
50	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	360
	GTGATTTTGn TTTCGCAAAA CATTTATTTT GGATTAAGTC	400

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 400 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3661:	
10	TGATGTTTGA TTAGCTCATA AATACTAAAT AATGTTTGTA ACTTATAGTT ACGTTTTTTG	60
- 1	GAATTAACGT TGACATATTG TCATTCAGTT TTCAATGTTC ATTTTTCTTA CCGACAAGAA	120
	TTAATTATAC ATTTTATTAA CATTTAAGTC AATAACTTTT TTTATCTTGT CCATTTTATT	180
15	TTTTAACCAA AATTTGATTA AAAAACTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG	240
	TTCGACTACC ATCGACGCTA AGGAGCTTAA CTTCTGTGTT CGGCATGGGA ACAGGTGTGA	300
20	CCTCCTTGCT ATAGTCACCA GACATATGAA TGTAATITAT ACATTCAAAA CTAGATAGTA	360
	AGTAAAAGTG ATTTTGCnTC GCAAACATTT ATTTTGATTA	400
	(2) INFORMATION FOR SEQ ID NO: 3662:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 742 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3662:	
	CGCTCAACGT CTGCCTTCGT AATGGCTTTT GTAGAAATTC TAACTAAATA ATTTCGAATG	60
35	CTATCATTGA TTGTTTCAAC AGCTTGATGC TTTTGTTCAA GCTTTTTGAT CAATTTTTTA	120
•	TCGTCTTTTG TAATTTCGCG AATGTCTTCA AACATTGATA AGACAATCTG ACCCACATTT	180
40	TGTAATTCTT TTTGAGTTTC TTGTAATGCA ACACCAGGTG CGTGATAAAC AAGATCTTTG	240
	TTTAAGTGCT GAGGTTTATA GTCATCAGCA ATATCTTTAC CTGGGACAAG CTTTGTAACA	300
,	ATCCATGCTA AACCTGCTAC AAATGGTAAT TGAATCAAAG TATTTGTTAT GTTGAAGATA	360
45	CCATGTGATA CTGCAATCGT CATCGCTGGT TTTAAGTGCC ATAAATCTTG TAACAAACTA	420
•	ATCAAATGAA TCACAACTGG CAAGAAAATT GTGAAGATAA TTACCCCGAT TAAGTTAAAG	480
	ATGACGTGTA CAAGCGCCGC ACGTTTTGCA GCGATTGAGC CGGCTAAACT AGCTAAGATA	540
50	GCTGTAATCG TGGTACCAAT GTTATCGCCT AGLAACACAG GGATKGCTGC GTTTAAGCTA	600
	ATTAAATCTT GTTGATAAAA TTCTTGTAAA ATACCAATCG TCGCACTTGA ACTTTGAACT	660

	AGCATTAAAT TGGCTTnAAA TC	742
	(2) INFORMATION FOR SEQ ID NO: 3663:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3663:	•
15	ATGAATTCAA GCTTATTTAA AACTCTTTAT TCACTCGGTT TTGCTTGGTA AAATCTATAT	60
	TTTACTTACT TATCTAGTTT TCAATGTACA ATTTCTTTTT AGTCAAGCGC TCGCATACTG	120
	CTTTATTTC AAAAAATCAA ATGCTCATTT ACAAAAGTAA ACTCCGCTTT AATTTTTCTT	180
20	AATGCATTGT CTAACAACCG CTTTCTTTAA AAAGAATAGA TTGTCÂAGCG CTCGCATAAG	240
	CAATATCACT TTAACCAAAA AATATTTGAA TGTTAAATAA ACATTCANAA CTGAATACAA	300
	TATGTCACGT DATTCCGCAT CTTCTGAAGA AGATGTTCCG AATATATCCT TAGAAAGGAG	360
25	GTGATCCAGC CGCACCTTCC GATACGGGCT ACCTNGTNAC	400
	(2) INFORMATION FOR SEQ ID NO: 3664:	
30 	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 636 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	• , •

35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3664:	
	AACTAATAGT TCACTTTTAC TTTTTTCTTT TTCATTATTA TCCATTATTT TTTCACCGCC	60
10	AAAACGAATT TCATGATGTT AATTTAAATG TTCTATGACA AAATTAAGCA ACGATGTTET	120
	ATATTTATTT CCAACTATGT CTAGATTAAA TTTCTAAAAA TAKACATCAT TTAAAAGGAG	180
	CTTGGGACAT AAATCAATGT CCTAGGGTCT ATAATATTAT AKTGCTAGTA GTTGACTGAA	240
15	TGAAAATGCG CTTGCAACAA GCTTTTTCA ACTCTAGTCA GGGGCCCCAA CACAGAGAAT	300
	TTCGAAAAGA AATTCTACAG GCAATGCGAG TTGGGGTGTG GGCCCCAACA CAGAGAATTT	360
	CGAAAAGAAA TTCTACAGGC AATGCGAGTT GGGGTGTGGG CCCCAACACA GAGAATTTCG	420
50	AAAAGAAATE CTACAGGCAA TGCGAGTTGG GGTGTGGGCC CCAACATAGA GAAATGGATT	480
	CCCAaTTTCT ACAGACAATG CAAGTTGGCG GGGCCCCAAC ACAGAAGCTG ACGAAAAGTC	540

101		TACAATAATG NGCAAGTTGG CGGGGNCCCC AACACA	0
		(2) INFORMATION FOR SEQ ID NO: 3665:	
5		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 404 base pairs (B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3665:	-
15		TATCATTTCC TGTTGCTAAA ACAACAGCAT GTATGCCATT CATAACACCT TTATTATGTG	50
		TTGCTGCACG ATGAATATCT ACTTGGGCCA ATACAGAAGC ACGTTCCATT CGTTTGGCAA 12	20
		CCTCTTCTCC AGTTCTCTCG CCCCTTGCTA AATCTTTAAC ATCAATTTCG CCTTGAACTT	30
20		TAACAACGGA CGCTGTTGCA TGATTGGATA AAATACTCAT TAAAATGTCG CTTTGGGAAA 24	10
		TECATTITIT AAAAATGCAG TTATGGCCTC TAAAATCGTA TTAAGCATAT TAGCGCCCAT	ÓO
		AGCATCTTTC GTATCAACAA ATACTTTTAA AGATAGTAAC TGtTGcTCAG GrAATGTAKC 36	50
25		matcgctata cgttggtaac caccaccacg cgctttaata ggaa 40	04
		(2) INFORMATION FOR SEQ ID NO: 3666:	
30		 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
,		(5) 101020027 (220022	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3666:	
	* .	GTGGTTCCAG TAGCAATTAT TGAACGATAT TAGGCTATCT AGTCGGCATA TTTGTAAAAC	60
40		AAGATCCAAT TAAATATCAA CAGGAATAAC GAATAATATA AAAGAGGTTG GGACATAAAT	20
		CCCTAAAAAA ACAGCAGTAA GATAATTTTC AATTAGAAAA TATCTTACTG CTGTTCTCTA 1	ВО.
		TTTATACAAT ACTTCGTATT GAATGGCTTC GCTTTCCTAG GGTGCCGTCT CAGCCTCGGT 24	40
45		CTTCGACTGG CACTGCTCCC TCAGGAGTCT CGCCATTAAT ACTACGTATT AACGTGTAAT	00
		TTTACTTTGA AATACTTTAA AAAAATAAGA CACTTTGCCC AACTTGCACA TAAATGTAAA	60
		ATTCAATAAA ATAAATTTCT GTGTTGGATC CCTnCGTATA 4	00
50		(2) INFORMATION FOR SEQ ID NO: 3667:	
		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	,
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3667:	
	CCAACAAATC TGTCTGTCGC ATCGCCTTTG TCGTTCCAAA TAAATATGTA CAAACGAA	ATC 60
10	CACCAGCATA CGCnCCAAGT AATCCTGCAA TATAACCTAA ATACATATTA TCTGAGAT	TTA 120
	ATGGTAATAG TGACACACCA CTTGGGCCTA TTGCTTTGGC ACCAATATGT CCAATTC	CAC 180
	CTATTACAGC GCCACCAATA CCACCACCAA TACAAGCAGT TAAGAAAGGT CGACCTAA	ATG 240
15	GCAAAGTCAC ACCATAGATT AATGGTTCTC CGATACCTAG GGAAACCAAC TGGCAATG	GCA 300
	CCTTTTAAAG TATTACGTAA TGTTGTGTTG CGGTTTACAT CTTACCCAAA GTGCTAAT	rgC 360
20	GGGCACCTAC TTGGTCCCAG CACCAGCCAT CGCTGCAATT	400
	(2) INFORMATION FOR SEQ ID NO: 3668:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3668:	
	ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG CTATGTATTC ACATATCG	AT 60
35	AACATGACAT AACTCATGAC TGGGTTTCCC CATTCGGAAA TCTCTGGATC AAAGCTTA	CT 120
55	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT AGTGCCAA	.GG 180
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA TCCTACAGGA AACGCGTT	'AT 240
40	TAATCTTGTG AGTGTTCTTT CGAACACTAG CGATTATTTC TTATGAATTC AAGCTTAT	TT 300
	AAAACTCTTT ATTCACTCGG TTTTGCTTGG TAAAATCTAT ATTTTACTTA CTTATCTA	GT 360
	TTTCAATGTA CAATTTCTTT TTAGTCAAGC GCTCGCATAA	400
45	(2) INFORMATION FOR SEQ ID NO: 3669:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3669:

	GAGCGCTACT TACTGGNAGG CGCTGGTGGG ATACTACCCT AGCTGTGTTG	GCTTTCTAAC	120
	CCGCACCACT TATCGTGGTG GGAGACAGTG TCAGGCGGGC AGTTTGACTG	GGCGGTCGC	180
5	CTCCTAAAAG GTAACGGAGG CGCTCAAAGG TTCCCTCAGA ATGGTTGGAA	ATCATTCATA	240
-,	GAGTGTAAAG GCATAAGGGA GCTTGACTGC GAGACCTACA AGTCGAGCAN	GGTCGAAAGA	300
10	CGGACTTAGT GATCCGGTGG TTCCGCATGG AAGGGCCATC GCTCAACGGA	TAAAAGCTAC	360
	CCCGGGGGAT AACAGGCTTA TCTCCCCCAA GAGTTCACAT		400
	(2) INFORMATION FOR SEQ ID NO: 3670:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		
20	(D) TOPOLOGY: linear		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3670:		
25	ATACTTTACA TTTCTCGTTT CGTCAGATTC AAACGTTTTC ACTTCGCCAA	GCCATCTTTC	60
	TTTGTGTTTG CTTTTATTTT GACGTTTTAG ACATAAAAA AGAGACCTTG	CGGTCTCAAT	120
	GCGGCTCATC GCATCCACTT TTTGCCTGGC AACGTTCTAC TCTAGCGGAA	CGTAAGTTCG	180
30	ACTACCATCG ACGCTAAGGA GCTTAACTTC TGTGTTCGGC ATGGGAACAG	GTGTGACCTC	240
	CTTGCTATAG TCACCAGACA TATGAATGTA AATTATACAT TCAAAACTAG	ATAGTAAGTA	300
	AAAGTGATTT TGCTTCGCAA AACATTTATT TTGATTAAGT CTTCCGATCG	ATTAGTATTC	360
35	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCCGAACCT	*	400
	(2) INFORMATION FOR SEQ ID NO: 3671:		
40 -	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3671:		
	CACCCGAAGA TATTGCTCAG ACAAAGTCAT CATATACAGG AAAGTATTTA		60
50	TTGAACGAGA TAAACAAAAT ACTGAAGATA AATAAGATTA AAAGAAGTGA	AGGATGTTAT	120
	AAATTTATCC TTCGCTTCTT TTTATTAATT TAGTAATGAA TAGTAGAAAG	AAAAGATGCG	180
	TAAAAAGAAT TATGTTAAGA TAGGGTCAAT CTAGAGTAGT TAAACATAAA	TCGAACTGGG	240

	TTAGCCACAG CTATTGTGTA CTTAAAAATA GGAATGCATG AGTGCACCAA NAGGNAGAAT	360
	ACTAATTTCC AAAGAAAAG TATTCCTTAT GTTGGGGCCC	400
5	(2) INFORMATION FOR SEQ ID NO: 3672:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3672:	
	TGGACCTGTA AAAGGAGACT CGATTGTAGA AAAAGAAGAG ATTCCATTCG AGAAAGAACG	60
	TAAATTTAAT CCTGATTTAG CmCCaGGGAC aGAAAAAGTA mCmAGaGAAG GACaAAAAGG	120
20	TGAGAAGACA ATHACGACAC CAACACTAAA AAATCCATTA ACTGGAGTAA TTATTAGTAA	180
	AGGTGAACCA AAAGAAGAAA TCACAAAAGA TCCGATTAAT GAATTAACAG AATACGGACC	240
	AGAAACGATA ACACCAGGTC ATCGAGACGA ATTTGATCCG AAGTTACCAA CAGGAGAGAA	300
25	AGAAGAAGTT CCAGGTAAAC CAGGAATTAA GAATCCAGAA ACAGGAGACG TAGTTAGACC	360
	ACCGGTCGAT AGCGTAACAA AATATGGACC TGTAAAAGGA GACTCGATTG TAGAAAAAGA	420
30	AGAGATTCCA TTCAAAACGT AAATTTAATC CGGATTTAGC A	461
	(2) INFORMATION FOR SEQ ID NO: 3673:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	57 2 197
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3673:	
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	60
45	TATTTTACTT ACTTATCTAG TTTTCAATGT ACAAATAATG GTGGAGACTA GCGGGATCGA	120
43	ACCGCTGACC TCCTGCGTGC AAAGCAGGCG CTCTCCCAGC TGAGCTAAGC CCCCAAAnAG	180
	GTATTAAATT AATGGGGGGC CTAAGTGGAC TCGAACCACC GACCTCACGC TTATCAGGCG	240
50	TGCGCTCTAA CCAGCTGAGC TATAGGCCCA TTAATTTGAA TGAACAAACA TTCAAAACTG	300
	AATACAATAT GTCACGTTAT TCCGCATCTT CnGAAGAAGA TGTTCCGAAT ATATCCTTAG	360
	AAAGGAGGTG ATCCAGCCGC ACCTTCCGAn ACGGCTACCT	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3674:	-
	ACATGAAGAC TTAATTGAAG AATTATTAGG TATGGAAATT GAAGATGAGA TGGATAAAAA	60
	GGAAAAAGAA AAACTTTCTC AACAGCAAAT TCAATTTCAA CAACGGAAAA ATCGCAACGT	120
15	ATCTATATAA GGAGCGAACA GCTATGTGGG AATAAGAATC GACTTACTCA AATGTTAAGT	180
	ATTGAATATC CAATTATACA AGCAGGTATG GCAGGAAGTA CGACACCGAA ATTAGTTGCA	240
	TCAGTAAGTA AACAGTGGTG GGTTAGGCAC AATAGGCGCG GTTACTTTAA TACGCGCCAA	300
20	TTGGANGATG GANATHGATT ATGTACGCCA TTAACGTCAA ATTCTTTTGG CGTAAATGTC	. 360
•	TTTGTACCAA GTCAACAATC ATATACCAGT AGTCCAAATT	400
•	(2) INFORMATION FOR SEQ ID NO: 3675:	
25 · 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	* *
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3675:	
35	AGCTAGGCCG GCAATATGTA AGAATAAATG GTGGAGAATG ACGGGTTCGA ACCGCCGACC	60
	CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT CTCCGATTTA AAACTGCCTG	120
	GCAACGTTCT ACTCTAGCGG AACGTAAGTT CGACTACCAT CGACGCTAAG GAGCTTAACT	180
40.	TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT AGTCACCAGA CATATGAATG	240
	TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT TITGCTTCGC AAAACATTTA	300
	TTTTGATTAA GTCCTCGTCG TTAGTATTCG TCAGCTCCAC ATGTCACCAT GCTTCCACCT	360
45	CGGACCTATT AACCTCATCA ACCTTGAGGG nTCTTATAAA	400
	(2) INFORMATION FOR SEQ ID NO: 3676:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3676:	
	TGGACAATGG TAGGAGAGCG TTCTAAGGGC GTTGAAGCAT GATCGTAAGG ACATGTGGAG	60
5	CGCTTAGAAG TGAGAATGCC GGTGTGAGTA GCGAAAGACG GGTGAGAATC CCGTCCACCG	120
	ATTGACTAAG TTTCCAGAGG AAGGCTCGTC CGCTCTGGGT TAGTCGGGTC CTAAGCTGAG	180
	GCCGACAGCG TAGGCGATGG ATAACAGTTG ATATTCCTGT ACCACCTATA ATCGTTTTAA	240
10	TCGATGGGGG GACGCATAGG ATANGCGAAN GTGCGATTGG ATTGCACGTC TAAGCAGTAA	300
	GGCTGAGTAT TAGGCAAATC CGGTACTCGT TAAGGCTGAG CTGTGATNGG GAGAAGACAT	360
15	TGAGTCTTCG AGTCGTTGAT TTCACACTGC CGAGAAAAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3677:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3677:	
	AAAGCGCCAC ATGGTGCCAA GTCTGGAGTT AATCCAGCAA TTGCTTGTTT TAAGCTATTA	60
30	TATTTTTCTT CTACTTTGT TTTTTCTGCG GCAATTTGTT GGTCAGTCGC ATCACCATTG	120
00	TTAATAACAT TTTGTGCATT TGTTGATTCT GTTTGACCCG CACGTTTAGC ATTTTCATAT	180
	GCTTGGATTG ATGATTGTGT CATACCATCA GTAGTTACTG ATTTATTGAT TTCTTCATCA	240
35	AGTTTCGTCT TAGCAGTTTT TAAAGCACTA TTATCAGCTA AAGGTACTAA TTGGATTAAT	300
,	TGCTTGCGTT AATCGCTCAT TGACACGATT TACATTTGTT AACGCAGATT GCACTTCTTG	360
	TACTGTTCTT AATGGGCTTT TGGAATAATA GCATTAGCGC	400
40	(2) INFORMATION FOR SEQ ID NO: 3678:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs	
	(B) TYPE: nucleic acid	•
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3678:	
	ACAGTCAATT GnTCTACCAA TTGAGCTAGG CCGGTTAAGA AATGGTTCCA GGACAGAGTC	60
	GAATGCCGAC ACATGGAGCT TCAATCCATT GCTCTAACCA ACTGAGCTAC TGAACCATAA	120

. . .

	AGGCGTGTTA ACCGCTACAC TACGAGACCT ATAAAATATT GCGGGAGGCG GATTTGAACC	240
_	ACCGTACTTC GGGTTATGAG CCCGACGAGC TACCGAACTG CTCCATCCCG CGATAATAAA	300
<i>5</i>	AAATAATGGC GGAGGAAGAG GGATTCGAAC CCCCGCGGCC CGTTAAGGCC tGTCGGTTTT	360
	CAAGACCGAT CCCTTCAGCC GGACTTGGGT ATTCCTCCAT TATTATAGGT AAATCGCTAT	420
10	TAATTATAAA ATTAAATGGC GGTCTCGACG GGAATCGAAC CCGCGATCTC tGCGTGACAG	480
-1- * p. p. t	GCAGGCGTGT TAAYCGCTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG AGGGATTCGA	540
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA GCCGGGACTT	600
15	GGGGTATTCC TCCAAAATTA TATGGGACCT TGCAGGACTC GAACCTGC	648
	(2) INFORMATION FOR SEQ ID NO: 3679:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3679:	
	CTGATCCCGT TGTGCTTCAC ACCCGATAGA TAGGGATTTA CAGATAAATT CAGGTCTCTT	60
30	CCACGTCATA TTTGGACCCA TCGAAAATTC GGGTTCTCAA ATCATCGAAC ATAACAAAAG	120
	AAGCTAAGCA ACATGTAGGC CGTTGTCACT TAACTTCTTG TTTTTCCGAT GACAGCTTCT	180
	ATTTAGAGAA TGTCATGATT ATTTTATATT CACTTCAATG TTATCAATAT TAGTGCCATC	240
35	TATGACATCT GCCATGCGAT TTTCTTGTAA TTTTTTGTGC AATTCAAACG TGTACTTTCC	300
	ACCGTTTTTC ATTTTAATAA CAATTTTACC TGAACCAACG TTACCGTACA GATTATTTTT	360
	TTCAATAAGT TGTTTTCTCA ATTTAAAATC AAGTTCTTTC	400
40	(2) INFORMATION FOR SEQ ID NO: 3680:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3680:	ı.
	TCAATGCGGC TCATCGCATT CATTTCTTGT CTAGCAACGT TCTACTCTAG CGGAAnTAAG	60
	TTAGCTACCA TCCTCGCTAA GAACCTTTCT TGACTTGTGA CAATCGCTTG CTTCTTTCCT	120

	TCGTCAGATT CAAACGTTTT CACTTCGCCA AGCCATTTTT CTTTGTGTTT ACTTTTTATT	240
_	TTGACGTTTT AGACATAAAA AAAGAGACCT CACGGTCTCA ACTTGCCTGG CAACGTTCTA	300
5	CTCTAGCGGA AGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC TTGTGACAAT	360
	CECTTGGCTT CTnTCCTCTC CTTCGGnTCT CGGCTTACTC	400
	(2) INFORMATION FOR SEQ ID NO: 3681:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	•
5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3681:	
0	TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG TTGCGCTCTT	60
	TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTTCT TTGTGTTTAC	120
_	TTTTTATTT GACGTTTTAG ACATAAAAA AGAGACCTCA CGGTCTCAAC TTGCCTGGCA	180
5	ACGITCTACT CTAGCGGAAC GTAAGTTGGC TACCATCGTC GCTAAAGACC TTTCTTGACT	240
8.	TGTGACAATC GCTTGCTTCT TTCCTCTCT TCGGCTCTCG CTTACTCATT TAGCTCTACT	30ò
o O	AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA	360
	TTTTCTTTG TGGTTTACTT TTTATTTTGA CGGTTTAGGC	400
•	(2) INFORMATION FOR SEQ ID NO: 3682:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs	,
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
o		.*
٠	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3682:	
5	TTGAACATGT TGAATCTAAT GAAATTCTTG TTCGTCGTCT AGTTGAAGAG AACGGCGTTG	60
	AGCATGAAGG TGAATTAGAT CGCTATCCAT TAGCTAAATT TAAACGTTCA AACTCAGGTA	120
	CATGTTACAA CCAACGTCCA ATCGTTGCAG TTGGAGATGT TGTTGAGTAT AACGAGATTT	180
o	TAGCAGATGG ACCATCTATG GAATTAGGAG AAATGGCATT AGGTAGAAAC GTATAGTTGG	240
	TTTCATGACT TGGGACGGTT ACAACTATGA GGATGCCGTT ATCATGAGTG AAAGACTTGT	300
	GAAAGATGAC GTGTATACTT CTATTCATAT TGAAGAGTAT GAATCAGAAG CACGTGATAC	360

(2) INFORMATION FOR SEQ ID NO: 3683:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*	
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3683:		-
	TTGGAATTTC TCCGCTACCC TCAGTTCATC CGCTCACTTT TCAACGTAAC	TCGGTTCGGT	60
15	CCTCCATTCA GTGTTACCTG AACTTCAACC TGACCAAGGG TAGATCACCT	GGTTTCGGGT	120
	CTACGACCAA ATACTAAACG CCCTATTCAG ACTCGCTTTC GCTACGGCTC	CACATTTACT	180
	GCTTAACCTT GCATCAAATC GTAACTCGCC GGTTCATTCT ACAAAAGGCA	CGCCATCACC	240
20	CATTAACGGG CTCTGACTAC TTGTAAGCAC ACGGTTTCAG GTTCTATTTC	ACTCCCCTTC	300
	CGGGGTGCTT TTCACCTTTC CCTCACGGTA CTGGGTTCAC TATCGGTCAC	TANGAGAGTA	360
	TTTAAGCCTT ANGAGATGGT CCTCCCAGAT TCCCGACGGG		400
25	(2) INFORMATION FOR SEQ ID NO: 3684:	O - m	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 528 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
		. w	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3684:	,	
*	GATTATGAT GAAAAACTAT CTGACTGCTG TTTCACTTTT TATAAGACTT	CTGAATGTCT	, 60
	TCACTTATAC TTCTAGTCAC AGATTMAAAT AATCAAAAGT GCACATTATT	AAAATATCAA	120
40	TTTCACACTC AATGCGGCTC ATCGCATTCA TTTCTTGTCT AGCAACGTTC	TACTCTAGCG	180
	GAACGTAAGT TAGCTACCAT CCTCGCTAAG AACCTTTcTT GACTTGTGAC	AATCGCTTGC	240
	TTCTTTCCTC TCCTTCGGCT CTCGCTTACT CATTTAGCTC TACTAAACTC	GTTGCGCTCT	300
45	TTTCTCGTTT .CGTCAGATTC AAACGTTTTC ACTTCGCCAA GCCATTTTTC	TTTGTGTTTA	3.6.0
	CTTTTTATTT TGACGTTTTA GACATAAAAA AAGAGACCTC ACGGTCTCAA	CTTGCCTGGG	420
£0	CAACGTTCTA CTCTAGCGGA ACGTAAGTTG GCTACCATCG TCGCTAAAGA	CCTTTCTTGA	480
50	CTTGTGACAA TCGCTTGCTT CTnTCCTCTC CTTCGGCTCT CGGTTACT		528
	(2) INFORMATION FOR SEQ ID NO: 3685:		

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3685:	
10	AAATTATGGT CGATTGCGAA TGATTTAAGA GGGANCATGG ATGCGAGTGA ATTCCGTAAT	60
	TACATTTTAG GCTTGATTTT CTATCGCTTC TTATCTGAAA AAGCCGAACA AGAATATGCA	120
	GATGCCTTGT CAGGTGAAGA CATCACGTAT CAAGAAGCAT GGGCAGATGA AGAATATCGT	180
15	GAAGACTTAA AAGCAGAATT AATTGATCAA GTCGGTTACT TCATTGAGCC ACAAGATTTA	240
	TTCAGTGCGA TGATTCGTGA AATTGAAACG CAAGATTTCG ATATAGAGCA TCTAGCGACG	300
	GCGATTCGCA AAGTTGAAAC ATCTACATTA GGTGANGAAA GTGAAAATGN CTTTATCGGG	360
20	CTGTTCAGCG ATATGGATTT GAGTTCAACG CGGCTAGGTA	400
	(2) INFORMATION FOR SEQ ID NO: 3686:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid	• • •
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
<i>30</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3686:	
	TTAAATTATT GGTCTATCGG TTCTTGGGGT GGCCATGGTA TCTGTTCACT CTTCGGTGGT	60
35	GCAGTTGCGA CAACTATGGG TTGGAGATGG ATTTTCATCT TCTCAATTAT CGTTGCCGTA	120
	CTTTCAATGT TACTCATCAA AGGGACGCCT GAAACGAAAT CAGAAATTAC CAATACACAT	180
	AAATTTGACG TTGCAGGGCT AATTGTTCTA GTAGTTATGT TGCTAAGTTT AAACGTTGTC	240
40	ATTACTAAAG GTGCAGCACT TGGTTACACA TCATTATGGT TCTTTGGTTT GATTGCAATC	300
	GTAATTGTAG CATTCTTAT TTTCTTAAAT GTTGAGAAAA AAGTAGATAA TCCACTTATT	360
45	GATTTTAAAT TATTGAAAAT AAACCATATA CAGGTGCAAC GGT	403
	(2) INFORMATION FOR SEQ ID NO: 3687:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	*	TATGAGCCCG ACGAGCTACC GAACTGCTCC ATCCCGCGAT AATAAAAAAT AATGGCGGAG	60
		GAAGAGGGAT TCGAACCCCC GCGGCCCGTT AAGGNCCTGT CGGTTTTCAA GACCGATCCC	120
	5	TTCAGCCGGA CTTGGGTATT CCTCCATTAT TATAGGTAAA TCGCTATTAA TTATAAAATT	180
		AAATGGCGGT CTCGACGGGA ATCGAACCCG CGATCTCCTG CGTGACAGGC AGGCGTGTTA	240
		ACCECTACAC TACGAGACCA TTAGTAAAAC GGAGGAAGAG GGATTCGAAC CCCCGCGAGC	300
	10	CGTTAAGCCC CTGTCGGTTT TCAAGACCGA TCCCTTCAGC CGGACTTGGG TATTCCTCCA	360
*		AAATTATATG GACCTTGCAG GACTCGAACC TGCGACCGAA CGGTATGAGC CGTAGCnCTA	420
	15	ACCACTGGGC TAAAGTCCTA ATATAATTT	449
		(2) INFORMATION FOR SEQ ID NO: 3688:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	20	(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
	·		
			•
	25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3688:	
		AAAACGTCGT AATATGCAAA TTGAAGGTGC CAAGGTTGTT ATTCAAGGTT TChATAATGC	60
		CGGAAGTTTC TTAGCTAAAT TCTTATATGA TTTAGGTGCA AAAATTGTAG GTATCTCTGA	120
	30	TGCTTACGGT GCATTACACG ATCCAAATGG CTTAGATATA GATTATTTAT TAGACCGTCG	180
		AGATAGTTTT GGTACGGTAA CAAATTTATT TGAAGAAACA ATCTCAAATA AAGAATTGTT	240
	35	TGAATTAGAT TGTGACATTT TAGTACCAGC GGCTATTTCA AACCAAATTA CAGAAGACAA	300
		TGCACATGAT ATTAAAGCTA GTATCGTTGT TGAAGCTGCT AATGGACCTA CAACACCAGA	360
		AGCAACACGT ATTTTAACTG AACGTGGTAT ATTATTAGTT	400
	40	(2) INFORMATION FOR SEQ ID NO: 3689:	. •
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 400 base pairs	
		(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	45	(D) TOPOLOGY: linear	*
	4		
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3689:	
	50	CACGCTTATC AGGCGTGCGC TCTAACCAGC TGAGCTATAG GCCCATTAAT TTGAATGAAC	60
		AAACATTCAA AACTGAATAC AATATGTCAC GTTATTCCGC ATCTTCTGAA GAAGATGTTC	120

	CGACITCACC CCAATCATIT GTCCCACCTT CGACGGCTAG CTCCTAAAAG GTTACTCCAC	240
	CGGCTTCGGG TGTTACAAAC TCTCGTGGTG TGACGGGCGG TGTGTACAAG ACCCGGGAAC	300
5	GTATTCACCG TAGCATGCTG ATCTACGATT ACTAGCGATT CCAGCTTCAT GTAGTCGAGT	360
	TGCAGACTAC AATCCGAACT GAGAACNACT TTATGGGGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3690:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 553 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3690:	•
20	GCnGCGTTTT AGGCCCATTC GGTTACCCCC nTTCCATAAA TGGTGCCCGG CCAGAGGACT	. 60
1)(-	TGAACCCCCC AACTTACTGA TTACAAGTCA GTTGCTCTAC CAATTGAGCT AGGCCGGCTA	120
	AGAAATGGTT CAGGACAGAG TCGAACTGCC GACACATGGA GCTTCAATCC ATTGCTCTAC	180
25	CAACTGAGCT ACTGAACCAT AATAAAAATG TAATGATGGC GGTCTCGACG GGAATCGAAC	240
	CCGCGATCTC tGCGTGACAG GCAGGCGTGT TAACCGCTAC ACTACGAGAC CTATAAAATA	300
	TTGCGGGAGG CGGATTTGAA CCACCGaCtT CGGGTTATGA GCCCGACGAG CTACCGAACT	360
30	GCTCCATCCC GCGATAATAA AAAATAATGG CGGAGGAAGA GGGATTCGAA CCCCCGCGGC	420
	CCGTTAAGGC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	480
35	ATTATTATAG GTANATCGCT ATTAATTATA ANATTAAAAT GGCGGTCTCG ACGGGAATCG	540
	AACCCGCGGA TCT	553
	(2) INFORMATION FOR SEQ ID NO: 3691:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	- 0-
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3691:	
	TCAATGCGGC TCATCGCATC CATTTTTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	60
50	GTTGGCTACC ATCGACGCTA AGAACCTTTC TTGACTTGTG ACAATCGCTT GCTTCTTTCC	. 120
	TCTTCTTCGG CTCTCGCTTA CTCATTTAGC TCTACTAAAC TCGTTGCGCT CTTTTCTCGT	180

2724. L

55

	TTTGACGTTT TAGACATAAA AAAAAGAGAC CTTGCGGTCT CAATGCGGCT CATCGCATCC	300
•	ATTTTTTGCC TGGCAACGTT CTACTCTAGC GGAACGTAAG TTCGGACTAC CATCGACGCT	360
5	AAGGGAGCTT AACTTTCTGT GTTCGGGCAT GGGGAACAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3692:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3692:	
	TCGAATACTG TCATGAAGTA ATTTCTCTAT TCTACGACCA GAAAATACAG ATTGAGTATA	60
20	TGCATATAAG ATGTTTTTAA CATCATTTTT GGATGATAGG ATGTTGCACC ACGATGATGT	120
	CTGAATTCAT CGAATTCCTA TCAGGTATCG TTTCAACAAT TTCATTAACA TATCGCGAAA	180
	TATCATTTTG AGAATTCTAA CGANTTTCCT ATTGGTAGTG TAAGTTGGGG TCATGTTATA	240
25 ·	ATTTTTATAC ATAAGGCACC TCTTTAATTT AGTTTAGTAG TATTTATTAA ATTATACGAG	300
	GGACCCAACA CAGAAAATTC ATTTTATTGa ATTTTACATT TATGTGmCAA GTTGGGaAAA	. 360.
,	ATGTCTTATT TTTTCAAAGT ATTTAAAAGT AAAATTACAT GTTAATACGT	410
30	(2) INFORMATION FOR SEQ ID NO: 3693:	1.
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	***************************************
•	(D) TOPOLOGI: Tinear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3693:	
	ACTTCATATA ATTTATGAAA TAAACCTGTC AATTTTGGAT TGATTATGCT TTGTGATTCT	60
	TTTTATTTCT GCGTAATAAC GCTAAACCTA AAATGCTAAA TAATCCGCCG AACAACATGC	120
45	CGTTGTTTGT TGATTCTTCT CCACCTGTTT CAGTAGTTCA GATTTCTTAG ATTGTGCTTT	180
	TTTAGTTGGT ACCACTGCTT TAACCTTTTC ATTGATTTCA ATAACAGGTG TTACTACTTT	240
	ACCTTGTTCC ACTGGTTTAG AAGGTTTTTT AGGTTCTTCT TTAGCAGGTG GTaTTGGTTT	, 300
50	ACCAGGTTCA GTTGGTACCT CTGGCGTTGG CGGTGTTGGT GTTTCCGGCT CGCTTGGTAC	360
٠	TTCTGGTGTC GGTGGTGTTG GGTGTTTnCC GGCTTCGCTT GGTACTTCTG GGTGTTCGGT	420
55	·	

(2) INFORMATION FOR SEQ ID NO: 3694:

55

	(1) SEQUENCE CHARACTERISTICS:	
5	(A) LENGTH: 400 base pairs	
•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	$oldsymbol{v}$	
10	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3694:	
	GCATCGTTGC CTTGGTAAGC CGTTACCTTA CCAACTAGCT AATGCAGCGG GAGTCCATCT	60
	ATAAGTGACA GCAAGACCGT CTTTCACTTT TGAACCATGC GGTTCAAATn ATTATCCGGT	120
15		
	ATTAGCTACG GTTTCCCGAA GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC	180
	ACCCGTCCGC CGCTAACATC AGAGAAGCAA GCTTCTCGTC CCGTTCGCTC GACTTGCATG	240
	TATTAGGCAC GCCGCCAGGT TCCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG	200
20	INTINGGENE GEEGEENGGI TECNTEETGA GEENGGATEN ANCTETECKI ANNATTATG	300
	ATGTTTGATT AGCTCATAAA TACTAAATAA TGTTTGTAAC TTATAGTTAC GTTTTTTGGG	360
	AATTAACGTT GGACATATTG TCATTCCAGT TTTCAATGTT	400
25	(2) INFORMATION FOR SEQ ID NO: 3695:	*
	- (i) SEQUENCE CHARACTERISTICS:	gr.
	(A) LENGTH: 400 base pairs (B) TYPE: pucleic acid	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3695:	
35	ACCTAATATA TAGACAGGTT CATCACTTAA TGACTTTGCA AGTTCGGCAA TGTCCTGTGC	60
	GTCGCGTTTG ACACGATAAT CACTGTCAGG GTTTGAAGCG GAATCAGGGA GTGGTTCAGT	120
40	TAACTCGCTT TCTCCATAAT CACGACGATC AACGGCTACA ACAGTAAAAT GGTCTTTTAA	180
40	COCCOMPONE CO. CO. CO. C.	
	CTGTTCTGCA AGAGGCAGAA AAATGTCTCC GGTACCGTTT GCACCAGGAA TAAAGATGAG	240
	CACGGGTCCT TGTCCGACTT GGTGGTATCG TAATTTAGCG CCTTGTAATT CTAAAGTTTC	300
45	CATATTCAAT GACCTCCATT TGTTAATTGT TAGGTGATAA ACCTAATAAT TTAGCACCAT	360
10	CHINITERNI SACCICATI ISIINNIISI INGGIGNIAN ACCIMINNI IINGGACAI	300
	TTGGTATAAC TTAATTTCnC CTTTTCCTTC ATCnGGTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3696:	
50	-	
	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	this beganne beschifflen. Beg is no. 5050.	
5	TTCTTTCTCT TCCTCCGGGT ACTAAGATGT TTCAGTTCTC CGGGTGTGCC TTCTGATATG	60
. •	CTATGTATTC ACATATCGAT AACATGACAT AACTCATGCT GGGTTTCCCC ATTCGGAAAT	120
	CTCTGGATCA AAGCTTACTT ACAGCTCCCC AAAGCATATC GTCGTTAGTA ACGTCCTTCA	180
10	TCGGCTTCTA GTGCCAAGGC ATCCACCGTG CGCCCTTAAT AACTTAATCT ATGTTTCCAC	240
	CATTITIATA AGTCAAACGC TCACATACGG CTTCGTTTTC ATTATTTTAA ATGCTCATTT	300
	ACATAAGTAA ACTCTGCTTT AAAATAATTT AACTCATTGT CTGCTAAACG TTTTCTTTTA	360
15	TAAAAAGATT TAAACGCGTT GATTAANCTG TGAGTGTTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3697:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3697:	
	CACTTTAACC AAAAAATATT TGAATGTTAA ATAAACATTC AAAACTGAAT ACAATATGTC	60
30	ACGTTATTCC GCATCTTCTG AAGAAGATGT TCCGAATATA TCCTTAGAAA GGAGGTGATC	120
	CAGCCGCACC TTCCGATACG GCTACCTTGT TACGACTTCA CCCCAATCAT TTGTCCCACC	180
	TTCGACGGCT AGCTCCTAAA AGGTTACTCC ACCGGCTTCG GGTGTTACAA ACTCTCGTGG	240
35	TGTGACGGGC GGTGTGTACA AGACCCGGGA ACGTATTCAC CGTAGCATGC TGATCTACGA	300
	TTACTANCGA TTCCANCTTC ATGTAGTCGA GTTGCAGACT ACAATCCGAA CTGAGAACAA	360
	CTTTATGGGA TTTGCTTGAC CTCGCGGTTT CGCTnCCCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 3698:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 3698:	
50	AAGGGAATCG AATTTCTTT CTCTTCCTCC GGGTACTAAG ATGTTTCAGT TCTCCGGGTG	co
	MANAGEMENT ANTITICITY OF TACTOR AND INCIDENCE MIGHT PROPERTY TO TO THE PROPERTY OF THE PROPERT	60

	CCCCATTCGG AAATCTCTGG ATCAAAGCTT ACTTACAGCT CCCCAAAGCA TATCGTCGTT	180
	AGTAACGTCC TTCATCGGCT TCTAGTGCCA AGGCATCCAC CGTGCGCCCT TAATAACTTA	240
5	ATCTATGTTT CCATCCTACA GGAAACGCGT TATTAATCTT GTGAGTGTTC TTTCGAACAC	300
	TAGCGATTAT TTCTTATGAA TTCAAGCTTA TTTAAAACTC TTTATTCACT CGGTTGTGCT	360
10	TGGnAAAATC TATATTTTAC TTACTTATCT AGGTTTCAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3699:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	÷
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3699:	
	TTTATGGCAT ACACGCATCA TAATACAGCC CAACACCACT AATGGTGCAG TTGCAAATCC	60
	AAATTCTTCC GCTCCAAGCG CACATGCGTA CGCTACATCT TTACCAGTTA ATAACTTACC	120
25	GTCTGTTTCT AACTTAACAC GACTTCTTAA GTCATTTAGT TTTAATGTTT GATGTGTTTC	180
	TGCTAAACCA ATCTCCCAAG GAACACCGGC ATGCTGAATA CTCGTTTTGG GTGAAGCCCC	240
30	TGTANCACCA TCGTAACCAC TGATGACAAT TTTATCTGCA AATGCTTTTG CCACCCCAGA	300
	TGCAATGGTA CCAACACCTG TTTTCGAAAC TAATTTTACC GCGATATCTG CATCTTTATT	360
	CGCATTTTC AAATCATGTA TCAGTTGCGC TAAATCTTCT	400
35	(2) INFORMATION FOR SEQ ID NO: 3700:	;
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3700:	
15	CGACGTACCA TCGACGCTAA GGAGCTTAAC TTTCGTGTGT TCGGCATGGG AACAGGTGTG	60
	ACCTCCTTTG CTATAGTCAC CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG	120
	TAAGTAAAAG THATTTTGCT TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG	180
50	TATTCGTCAG CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT	240
	TGAGGGATCT TATAACCGAA GTTGGGAAAT CTCATCTCnC GGGGGGCTTC ATGCTTAGAT	300

	GGTACACCAG AGGTATGTCC ATCCCGGTCC TCTCGTACTA	400
	(2) INFORMATION FOR SEQ ID NO: 3701:	
5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3701:	
15	AACCAAGCCC AATAATGGAC TGGCCGCCTA ATAATAAAAG CTCTAAAAGT TGTATTTTAA	60
15	AAATAGTTCT TTAAATTATA TACCCACCAC ATTTGGTGGA GAACCTAAAA AAAAGCACTT	120
	CCCAAAAATG GAAAGTGCAA GTAGTGAGCC ATAGAGGATT CGAACCTCTG ACCCTCTGAT	180
	TAAAAGTCAG ATGCTCTACC AACTGAGCTA ATGGCTCTAA TGGCTGGGCT AGCTGGATTC	240
20	GAACCAACGA GTGACGGAGT CAAAGTCCGT TGCCTTACCG CTTGGCTATA GCCCAATATA	
		300
	TAGATGGTGG AGGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGnTT TACAGTCCGC	360
25	CGCGTTTAGC CANTTCGNTA CCCCTCCAGN TTATTCATAT	400
	(2) INFORMATION FOR SEQ ID NO: 3702:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 400 base pairs	
30	(B) TYPE: nucleic acid	. *
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3702:	* .
	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	60
40	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTT ATTCTACCGC TGAACTACTT	120
	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA AGGTTAGATC CTAAGTCTAG	180
	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	240
45	ACCCTCTGGA TTAAAAGTCA GATGCTCTAC CAACTGAGCT AATGGGCTCT TCCATGGTGC	300
	CGGCCAGAGG ACTTGGAACC CCCAACCTAC TGGATTACAA GTCAGTTGGC TCTACCAATT	360
	GANGCTAAGG CCGGCAATAT GTTAAGNATN AATGGTGGAG	400
50	(2) INFORMATION FOR SEQ ID NO: 3703:	-
	(i) SEQUENCE CHARACTERISTICS:	
	(a) Degenice Constituting;	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
5		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3703:	•
	CAACTAATAA ATAGTGGCGG TGGAGGGGAT CGAACCCCCG ACCTCACGGG TATGAACCGT	60
10	ACGCTCTAGC CAGCTGAGCT ACACCGCCTT ATATAGTTTG TAAATAATAT GGTGGAKACT	120
	AGCGGGATCG AACCGCTGAC CTCCTGCGTG CAAAGCAGGC GCTCTCCCAG CTGAGCTAAG	180
	CCCCCATAAT AATTACAGTA TATCGGGAAG ACAGGATTCG AACCTGCGAC CCCTTGGTCC	240
15	CAAACCAAGT GCTCTACCAA GCTGAGCTAC TTCCCGTATA ATTAACGCGC CCGATAGGAG	300
	TCGAACCCAT AAACCTCTTG ATCCGTAGTC AAACGCTCTA TCCAATTGAG CTAACGGGCG	360
	CATATGTTTT TAATTGAAAT GGTGCCCGAG GACCGGAATG	400
20	(2) INFORMATION FOR SEQ ID NO: 3704:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3704:	
	CTAACGCCTA CGCGTTACAT GAAAAACGGA GAACAAGCAG AACAATTATT ACGTCAGCTT	60
	ATAGAAAAAG ATGAAGCACT AGCTAAGTAT GTCATGGTTT GTGATGAAAC AGCTTGGTGG	120
35	TCATATATGG GTCAAGATAA TGATATTTTC AAAGATCAAT TAGGTCATCT AACTGTTCAG	180
	CTAAGAAAGT ATCCCGAAGT GCTAGCCAAA AATGATACGC AACAGCTAGT GTCAATGGCA	240
	GCACTCGCGG CAAATGATCG CACTTTATAT CAAATGATTT GTGGAAAAGA TAATATTTCT	300
40	AAAAATGATG TCATGACGTT ATTTGAAGAT ATCGCGCAAG TCTTTTTAAA GGTAACACTA	360
	TCATTTATGC AATACGGCGC ATTACCCAGA GTTGCATGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3705:	•
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 478 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

2651

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3705:

	TGACGGGGAC CCGCACAAGC GGTGGAGCAT GTGGTTTAAT TCGAAGCAAC GCGAAGAACC	120
_	TTACCAAATC TTGACATCCT TTGACAACTC TAGAGATAGA GCTTTCCCCT TCGGGGGTAC	180
. 5	AAAGTGACAG GTGGTGCATG GTTGTCGTCA GCTCGTGTCG TGAGATGTTG GGTTAAGTCC	240
	CGCAACGAGC GCAACCCTTA AGCTTAGTTG CCATCATTAA GTTGGGCACT CTAAGTTGAC	300
10	TGCCGGTGAC AAACCGGAGG AAGGTGGGGA TGACGTCAAA TCATCATGCC CCTTATGATT	360
y 40 - 4 - 5 + 1	TGGGGCTACA CACGTGCTAC AATGGACAAT ACAAAGGGCA GCGAAACCGT GAGTCAAGCA	420
	AATCCCATAA AGTTGTTCTC AGTTCGGATT GTAGTCTGCA ACTCGACTAC ATGAAGCT	478
15	(2) INFORMATION FOR SEQ ID NO: 3706:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	* * .
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3706:	
25	ATCTTAAGTC TTTGGTGAAC CGTTTTGTAG AATTAAATAA TATTACAGAG CCGCTAGCAG	60
	TAACGATCCA AACGAATTTA CCACCATCAC GTGGATTAGG ATCGAGTGCA GCTGTCGCGA	120
30	TTGCTTTTGT TCGTGCAAGT TATGATTTTT TAGGGAAATC ATTAACGAAA GAAGAACTCA	180
	TTGAAAAGGC TAATTGGGCA GAGCAAATTG CACATGGTAA ACCAAGTGGT ATTGATACGC	240
	AAACGATTGT ATCAGGCAAA CCAGTTTGGT TCCAAAAAGG TCATGCTGAA ACGTTGAAAn	300
35	CTCAAAGTTT AGACGGCTAT ATGGTTGTTA TAGANACTGG TGTGAAAGGT TCACCAAGAC	360
	AAGCAGTAGA AGATGTTCCA TAAACTTTGG TGAGGACCCT	400
	(2) INFORMATION FOR SEQ ID NO: 3707:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· ·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3707:	
50	GTCGAACTGC CGACACATGG AGCTTCAATC CATTGCTCTA CCAACTGAGC TACTGAACCA	60
	TAATAAAAAT GTAATnnTGG CGGTCTCGAC GGGAATCGAA CCCGCGATCT CCTGCGTGAC	120
	AGGCAGGCGT GTTAACCGCT ACACTACGAG ACCTATAAAA TATTGCGGGA GGCGGATTTG	180

	TAAAAAATAA TGGCGGAGGA AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG	300
	GTTTTCAAGA CCGATCCCTT CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC	360
5	GCTATTAATT ATAAAATTAA ATGGCGGTCT CGACGGGAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3708:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. ,
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3708:	
•	GTTCGCCCAT TAAAGCGGTA CCANGCTGGG TTCAGAACGT CGTGAGCANG TTCGGTCCCT	60
20	ATCHGGGGTG GGCGTAGGAA ATTTGAGAGG AGCTGTCCTT AGTACGAGAG GACCGGGATG	120
	GACATACCTC TGGTGTACCA GTTGTCGTGC CAACGGCATA GCTGGGTAGC TATGTGTGGA	180
	CGGGATAAGT GCTGAAACAT CTAAGCATGA AGCCCCCCTC AAGATGAGAT TTCCCAACTT	240
25	CGGTTATAAG ATCCCTCAAA GATGATGAGG TTAATAGGTT CGAGGTGGAA GCATGGTGAC	300
	ATGTGGAGCT GACGAATACT AATCGATCGA AGACTTAATC AAAATAAATG TTTTGCGAAC	360
30	AAAATCCACT TTTACTTACT ATCTAGTTTT GAATGTATAA	400
	(2) INFORMATION FOR SEQ ID NO: 3709:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3709:	
	AATTTTATGG GCCCTTTATG GACTTTATAT TMCCTAAAAT ACTATTAAGA AGTCCTGAAA	60
45	AATTCACATT AGCAGTTGGA TTGTTCAACT TTATTAATGA TAAGTATGCA AATAATTTCA	120
	CAGTGTTTGC AGCAGGGGCA ATTATGATTG CAGTACCTAT AGCAATCGTA TTCTTGTTCT	180
	TGCAACGCTA TTTAGTATCA GGTTTAACAA CAGGTGCGAC AAAAGGTTAG TTTGAAATTT	240
50	GGAGTGGGGC AGAATTGATA AAGAACCACT AATGACGATA AAGATTAAAA GGAGGACGTT	300
	ATGATGACGA TTAAAGTTGG AATCATTGGG TGTGGTGGTA TTGCGAATGG CAAGCACATG	360
	CCAAGTTTAC AAAAAGTTGA AAATGTTGAA ATGATCGCAT TTGTGACGTG GACTTTCGAA	420

(2) INFORMATION FOR SEQ ID NO: 3710:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 559 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
- ' '	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3710:	* 27
	AGTGCTCTAC CAAGCTGAGC TACTTCCCGT ATAATTAACG CGCCCGATAG GAGTCGAACC	60
15	CATAACCTCT TGATCCGTAG TCAAACGCTC TATCCAATTG AGCTACGGGC GCATATGTTT	120
•	TTATTGAAAA TGGTGCCGAG GACCGGAATC GAACCGGTAC GTGATCACTC ACCGCAGGAT	180
20	TTTAAGTCCT GTGCGTCTGC CAGTTCCGCC ACCCCGGCAC TATAAAAATG GAGCAGAAGA	240
20	CGGGATTCGA ACCCGCGACC CCAACCTTGG CAAGGTTGTa TTCTACCGCT GAACTACTTC	300
	TGCATATGCG GGTGAAGGGA GTCGAACCCC CACGCCGTAA GCTKAGATCC TGAAGTCTAG	360
25	TGCGTCTGCC AATTCCGCCA CACCCGCAAA TGGTGAGCCA TAGAGGATTC GAACCTCTGG	420
	ACCCTCTGGA TTGAAAAGTn CAGATGCTCT GACCAACTGG AGCTAATGGC TCTTCCCATG	480
	GTGGCCGGCC AGAAGGACTT GGAACCCCCA ACCTGATGGA TTTACAATTC AGTTGGCTCT	540
30	AACCAATTTG AGCTAAGGC	559
	(2) INFORMATION FOR SEQ ID NO: 3711:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3711:	
	AACCTTTTAG GAGCTAGCCG TCGAAGGTGG GACAAATGAT TGGGGTGAAG, TCGTAACAAG	60
15	GTAGCCGTAT CGGAAGGTGC GGCTGGATCA CCTCCTTTCT AAGGATATAT TCGGAACATC	120
	TTCTTCAGAA GATGCGGAAT AACGTGACAT ATTGTATTCA GTTTTGAATG TTTGTTCATT	180
	CAAATTAATG GGCCTATAGC TCAGCTGGTT AGAGCGCACG CCTGATAAGC GTGAGGTCGG	240
50	TGGTTCGAGT CCACTTAGGC CCACCATTAA TTTAATACCT ATTTGGGGGC TTAGCTCAGC	300
	TGGGAGAGCG CCTGCTTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTA GTCTCCACCA	360
	TTATTTGTAC ATTTGAAAAC TAGATAAGTA AGTAAAATAT	400

5 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3712:	
*	TAGAATGAAC CGGCGAGTTA CGATTTGATG CAAGGTTAAG CAGTAAATGT GGAGCCGTAG	60
	CGAINTCATG TCTGAATAGG GCGTTTAGTA TTTGGTCGTA GCCTGAAACC NNGTGATCTA	120
15	CCCTTGGTCA GGTTGAAGTT CAGGTAACAC TGAATGGAGG ACCGAACCGA	180
	AAAGTGAGCG GATGAACTGA GGGTAGCGGA GAAATTCCAA TCGAACCTGG AAATAGCTGG	240
	TTCTCTCCGA AATAGCTTTA GGGCTAGCCT CAAGTGATGG ATTATTGGAG GTAGAGCACT	300
20	GTTTGGACGA GGGGCCCCTC TCGGGTTACC GAATTCAGAC AAACTCCGAA TGCCAATTTA	360
	ATTTAACTTG GGGAGTCAGA ACATTGGGTG ATAAGGTCCG	400
25	(2) INFORMATION FOR SEQ ID NO: 3713:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3713:	
35	TTTTTAAGTC TGATGTGAAA GCCCACGGCT CAACCGTGAA GGGTCATTGG AAACTGGAAA	60
	ACTTGAGTGC AGAAGAGGAA AGTGGAATTC CATGTGTAGC GGTGAAATGC GCAGAGATAT	120
	GGAGGAACAC CAGTGGCGAA GGCGACTTTC TGGTCTGTAA CTGACGCTGA TGTGCGAAAC	180
40	GTGGGGATCA NACAGGATTA GATACCCGGT AGTCCACGCC GTAAACGATG AGTGCTAAAG	240
	TGTTAGGGGG TTTCCGCCCC TTAGTGCTGC AGTAAACGCA TTNAAGCACT CCGnCTGGGG	300
45	AGTACGNCCG CAAGTTGGAA ACTTCAAAGG AATTGACGGG GGACCCGCAC AAGCGTTGGG	360
	AGCATGTGGT TTAATTTCGA AGCAACGGAG AGGAACCTGA	400
	(2) INFORMATION FOR SEQ ID NO: 3714:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3714:		
5	AGGTAGGACT CGAACCTACG ACCGATCGGT TAACAGCCGA TAGCTCTACC ACTGAGCTAC		60
_	TGTGGATTAA TATTATGCCT GGCAACGTTC TACTCTAGCG GAACGTAAnT CGACTACCAT		120
	CGACGCTAAG GAGCTTAACT TCTGTGTTCG GCATGGGAAC AGGTGTGACC TCCTTGCTAT		180
10	AGTCACCAGA CATATGAATG TAATTTATAC ATTCAAAACT AGATAGTAAG TAAAAGTGAT		240
	TTTGCTTCGC AAAACATTTA TTTTGATTAA GTCTTCGATC GATTAGTATT CGTCAGCTCC		300
	CALGTCACCA TGCTTCCACC TCGAACCTAT TAACCTCATC ATCTTTGAGG GATCTTATAA		360
15	CCGAAGTTGG GAAATCTCAT CTTGAGGGGG GCTTCATGTC TTAGCATTTC AGTCACTTAT		420
	GCCCG		425
	(2) INFORMATION FOR SEQ ID NO: 3715:		
20	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 400 base pairs		-
	(B) TYPE: nucleic acid		
•	(C) STRANDEDNESS: double	•	
25	(D) TOPOLOGY: linear		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3715:		
3 0	GTCCCTGCTG TTCCTATCAT ATAAATGATA GATTCAAATA GATTTGTAGG TTTGTCATGC	•	60
	CCAGTTACAA GTTGCGTTAT CGTAGACACT AACATTAATA TGACTGGTAA TGTTGCTGTT		120
	AATAAACTCA TACCAAATCC TGGCATCTCT TGATCCGTAA ATTCTTTTTG TGCACCTAAC		180
35	GCTGAAATAT CGCCTTCTCG TGTATACGCA GACGGAATCA TTTTTTGTGC ACTTTGTTAA	•	240
	ATATAGGCCC TGCAATGAGT GTACTGGAAT GGCAATAATC ATACCATACA GTAATACATC		300
40	TCCAACATTT GCCTTTAATT CTTTTGCGAG ACTACCGGTC CTGGGATGTG GTGGTAAAAA	. *	360
	GCCATGTGTC ACTGATAAAG CTGTTACCAT AnGTAGTCCT	٠.	400
-5	(2) INFORMATION FOR SEQ ID NO: 3716:		
45	(i) SEQUENCE CHARACTERISTICS:		
45	(A) LENGTH: 400 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
50	(b) solonous, samua		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3716:		
	TTATGAATTC AAGCTTATTT AAAACTCTIT ATTCACTCGG TTTTGCTTGG TAAAATCTAT		60

	GCAATATCAC TTTAACCAAA AAATATTTGA ATGTTAAATA AACATTCAAA ACTGAATACA	180
	ATATGTCACA TTATTCCGCA TCTTCTGAAG AAGATGTTCC GAATATATCC TTAGAAAGGA	240
5	GGTGATCCAG CCGCACCTTC CGATACGGCT ACCTTGTTAC GACTTCACCC CAATCATTTG	300
	TCCCACCTTC GACGGCTAGC TCCTAAAAGG TTACTCCACC GGnTTCGGGT GTTACAAACT	360
10	GTTCGTGGTG TGACGGGGCG GTGTGTTACA AGACCCGGGA	400
. •	(2) INFORMATION FOR SEQ ID NO: 3717:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3717:	
	AAAGGACGAC ATTAGACGAA TCATCTGGAA AGATAATTCA AAGAAGGTAA TAATCCTGTA	60
25	GTCGAAAATG TTGTCTCTT TGAGTGGATC CTGGTACGAC GGAGCACGTG AAATTCCGTC	120
23	GGAATCTGGG AGGACCATCT CCTAAGGCTA AATACTCTCT AGTGACCGAT AGTGAACCAG	180
	TACCGTGAGG AAAGGTGAAA AGCACCCCGG AANGAGTTGA AATAGAACCT GAAACCGTGT	240
30	GCTTACAAGT AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG	300
	CGAGTTACGA TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAn AAnnTGTTCT	360
	GAATAGGGCG TTTAGTATTT TGGTCGTAGC CCGAGAACCA	400 .
35	(2)INFORMATION FOR SEQ ID NO: 3718:	1.
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	7 .
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3718:	
	TAATTCATCT GCAGCATCTG GTTGATTTAA GCTTTCACGT AAACACATCG CTAAAGATAG	60
	AATCATTCCA AATGGATTGG CAACGTTTTT ACCTGCAATA TCTGGTGCTG ATCCATGAAT	120
50	AGGCTCATAC AATCTTGGAC CATCGTTACT AAAACTAGCA GAAGGTGATA AACCAAGTGA	180
	ACCAGGAATC ACTGAAGCTT CATCACTTAA AATATCGCCA AATAAGTTTT CACATACGAT	240
	GACGTCAAAT TGTTTTGGnA TTTGTGATTA AATGCATACT ACAAGCATCA ACAAATAAGT	300

ATA:

TTTACTAGAA GCTAATACAT TTCCTTATCA ACGGATGTNA

	(2) INFORMATION FOR SEQ ID NO: 3719:	-4-
5	(i) SEQUENCE CHARACTERISTICS:	1
	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	10
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10 .		
		er engale e
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3719:	
15	ATTTAAAACT GCCTGGCAAC GTTCTACTCT AGCGGAAnTA AGTNGAGCTA CCATCGACGC	. 60
	TAAGGAGCTT AACTTCTGTG TTCGGCATGG GAACAGGTGT GACCTCCTTG CTATAGTCAC	120
	CAGACATATG AATGTAATTT ATACATTCAA AACTAGATAG TAAGTAAAAG TGATTTTGCT	180
20	TCGCAAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG CTCCACATGT	240
	CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT TATAACCGAA	300
25	GTTGGGAAAT CTCATCTTGA GGGGGGCTTC ATGCTTAGAT GCTTTCAGCA CTTATCCCGT	360
٠,	CCACACATAG CTACCCAGCT AGCCGTTGGC ACGACAAAGG	400
	(2) INFORMATION FOR SEQ ID NO: 3720:	·
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	. 8
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		*
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3720:	
	CGTTACACCT TCCAATAAAT TTGCTGTTGC TGGATAAGGA GAAATATTGA TATATTGTCT	60
40	TAAATTACTA TAATGCCAAT TTAAGTCTGG ATGATTTGTT AAGACACCAA TAGGATTATC	120
	TTTTATAACC ACTTCACCCT CTTTAAATGA AACTTCGACT GTATGTCCAG TTGCATCGGA	180
45	AACATGATAA TGCAATGGCG GAACTTCACC GATGTCATTT AAATATACAG CTACAACATG	240
	TATTTGGGAT GCTTGTTGTT TCATATCTTC AATGCTTGTT GTATATCCCA AAATCCATGT	300
	CACAATTTCA TTTTGCGTAA TATTCATCGC GTCCGCTTTG TGTGTTGGAT CCATATGGAA	360
50	CTATAACCTC GGGAAATATT GTGGTTGAAA TGGGCACGCC	400
•	(2) INFORMATION FOR SEQ ID NO: 3721:	•
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: lin ar	
5	(vi) SECURIOR DESCRIPTION ORD IN NO. 1001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3721:	
	AGTCAGTTTA TAGCGATTGC TGGACTGACA GTACTTGTGC CATTATTGCC AATTTATATG	60
10	GCATCACTAC AAAATCTATC AGTCGTAGAA ATACAGTTGT nGAGTGGTAT AGCGATTGCT	120
	GCTCCAGCTG TAACGACGAT GATAGCTTCG CCGATATGGG GGAAGCTAGG TGATAAGATC	180
	AGCCGAAAAT GGATGGTGTT AAGAGCGTTA CTTGGTTTGG CGGTATGCTT ATTTTTAATG	240
15	GCATTGTGTA CGACACCATT ACAGTTTGTA CTTGTGGAGG TTATTGCAGG GACTATTTGG	300
	TGGTGTTGTT GATGCATCAA GTGCGTTTGC GAGTGCAGAA GGCGCCACTG ANAGATCGTG	360
	GGAAAGGTAT TAGGAAGACT GCAAATTnCA GTTCAGCGCA	400
20	(2) INFORMATION FOR SEQ ID NO: 3722:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3722:	
	TCTAAAAGTT GAACTACTCC CGCATAAACC TGGAGGCGGC AACCGGATTT GAACCGGTGA	60
	TAAAGGTTTT GCAGACCTCT GCCTTACCAC TTGGCTATGC CGCCAATAAC TGGGCTAGCT	120
35	GGATTCGAAC CAACGAGTGA CGGATAAAGT CCGTTGCCTT ACCGCTTGGC TATAGCCCAT	180
	TAATAATAAG GGCGGCTGAA GGGGATCGAA CCCTCGAATG TCGGAACCAC AATCCGATGT	240
	GTTAACCACT TCACCACAGC CGCCATGGCA GGGGCAGTAG GAATCGAACC CACACCAAAG	300
40	GTTTTGGAGA CCTCTATTCT ACCNTTGAAC TATGCCCCTA TTAAAATGAT AAATGGAGGG	360
	GGGCAGATTC GAACTGCCGA ACCCGAGGGG CGGATTTTAC	400
45	(2) INFORMATION FOR SEQ ID NO: 3723:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3723:

	GGTTCAAGTC CTCTGGCCGG CACCATTTnT GGAGGGGTAG CGAATGGCTA AACGCGGCGG	120
-	ACTGTAAATC CGCTCCTTCG GGTTCGGCAG TTCGAATCTG CCCCCCTCCA TTTATTATTT	180
<i>5</i>	TTAATAGGGG CATAGTTCAA CGGTAGAATA GAGGTCTCCA AAACCTTTGG TGTGGGTTCG	240
	ATTCCTACTG CCCCTGCCAT GGCGGCTGTG GTGAAGTGGT TAACACATCG GATTGTGGTT	300
10	CCGACATTCG AGGGTTCGAT CCCCTTCAGC CGCCTTATTA TTAATGGGCT ATAGCCAAGC	360
	GGTAAGGCAA CGGACTTTGA CTCCGTCACT CGTTGGTTCG	400
	(2) INFORMATION FOR SEQ ID NO: 3724:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	r
20		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3724:	
	CACTITAGCA AATGGTGACA AAGTCCGTAT TGCTACAATT TTTGACTTAA TGGCAAGTCA	60
. 25	ATATGGCGTG CGTCGTTTTG ATCATAAATT AGAATCAAAA GGATACGACG ATGCAGAATC	120
	AAAATATACA CCTGCTTGGC AAGAAGCCAT TTCAGGCGTA AAACAAAGTG TTmGTCATTC	180
30	AAGTAGCGAA AGAATTTGCG CAAAACGCTA TCGATACTGA AGGGCGTTCA ATGATTATCA	240
	TGGGTGCGGG TATTAACCAT TGGTTTAACT CAGATACGAT TTATCGTTCC AATCTTAAAC	300
	TTAGTTATGT TATGTGGCTG TCAGGTGTGA ATGGTGGCGG TTGGGGCTCA CTATGTGGGG	360
35	ACAAGAAAA TGTCGTCCGA TTGAAGGATG GAGTACTGTC	400
	(2) INFORMATION FOR SEQ ID NO: 3725:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3725:	-
	CGCTATCTGA ATCTGAATCG CTATCTGAAT CTGAGTCGTT GTCTGAGTCC GAATCGCTAT	60
50	CTGAATCTGA GTCGCTATCT GAGTCTGAGT CGCTATCTGA ATCTGAGTCG CTGTCTGAAT	120
	CTGAATCACT GTCTGAGTCT GAGTCGCTGT CTGAGTCTGA ATCGCTGTCA GAATCTGAGT	180
	CGCTATCTGA GTCTGAATCT GAATCACTGT CTGAGTCCGA ATCGCTATCT GAATCTGAAT	240

	CCGAGTCTGA ATCGCTGTCT GAGTCTGAGT CGCTGTCTGA ATCTGAATCG CTATCTGAGT	360
· _ x	CTGAGTCGCT GTCkGAATgC GCTGTCTGAA TCTGAGTCGC TATGCTGAAT GCTGAGTnCG	420
5	CTATGTGAGT CTGAATGCGC TGTGCAGAAT CTGAGTGCGC TCATCTGATG TTTCTT	476
	(2) INFORMATION FOR SEQ ID NO: 3726:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3726:	
	ATACGACCAC TGTTTAATGC GTCCATTAAA TCTGGCCAAT TATTGAATTT AACTAATTCT	60
20	AGTTTATATT TOGGATGATT GTATTGTGAT AATAATTTTT TAGTCATCAT CAAATTAGCT	150
	GAATGTGTAA TCGGCAAATA TCCAATTTTA ATCACTTGCT GATTTTGGGC ATTTTTAGAC	180
	CGTTCTTTAG ACGTCCTTTG CCAATCACAT CCTGTAATTA TAAAGATTCC AATGATGACG	240
25	ATTATGCTTA ACCTTTTCAT CGTCACTCAC TCCTTATAAA TAATATTCAG GTTCAACTTG	300
	ATGATGATTC AATGCAANGT TTCCATAATT TCATTACGAA TCTTAAGTAG GTGGCTATCA	360
30	TTACGGACTG CGTGGATGTG ANGCTGTAAA TTCCATANTG	400,
	(2) INFORMATION FOR SEQ ID NO: 3727:	+ -
35	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3727:	
	ACGACGGATA GGGACCGAAC TGTCTCACGA CGTTCTGAAC CCAGCTCGCG TACCGCTTTA	60
	ATGGGGGAC AGCAAACCT TGGGACCGAC TACAGCCCCA GGATGCGATG AGCCGACATC	120
45	GAGGTGCCAA ACCTCCCCGT CGATGTGAAC TCTTGGGGGA GATAAGCCTG TTATCCCCGG	180
	GGTAGCTTTT ATCCGTTGAG CGATGGCCCT TCCATGCGGA ACCACCGGAT CACTAAGTCC	240
	GTCTTTCGAC CCTGCTCGAC TTGTAGGTCT CGCAGTCAAG CTCCCTTATG CCTTTACACT	300
50	CTATGAATGA TTTCCAACCA TTCTGAGGGA ACTTTGAGCG CCTCCGTTnC CTTTTAGGAG	360
		400
	GCGAACGGCC CCAGTTCAAA CTGCCCGCCT GAACACTGTC	- 12 0 0

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3728:	
	TTGAAAAGTC ATATCAAAGC GCACATGTTT TTAAGCGTCG TCGAACACCT ATCGTGAAAG	60
	GTGTGTCATT TGAGTGTCCA ATCGGTGCGA CGATTGCGAT TATCGGAGAA AGTGGTAGCG	120
15	GTAAATCGAC GTTGAGTCTA TTGATATTAG GTATTGAGAA ACCGGATAAA GGTTGTGTAA	180
	CCTTAAATGA TCAACCGATG CATAAGAAGA AAGTGAGACG TCATCAAATT GGTGCTGTAT	240
	TTCAAGATTA TACGTCATCA TTACATCCAT TTCAGACTGT TAGAGAAATC TTATTTGAAG	300
20	TGATGTGTCA ATGTGATGGA CAACCTAAAG AAGTTATGGA AGTCCAAGCA ATTACATTGT	360
	TGGAAGAAGT CGGTCTATCT AAGGCATACA TGGGATAAAT	400
25	(2) INFORMATION FOR SEQ ID NO: 3729:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3729:	100
	ATCGAACCCC CGACCTCACG GGTATGAACC GTACGCTCTA GCCAGCTGAG CTACACCGCC	60
35	TTATATAGTT TGTAAATAAT ATGGTGGAGA CTAGCGGGAT CGAACCGCTG ACCTCCTGCG	120
	TGCAAANAGC CGCTCTCCCA GCTGAGCTAA GCCCCCATAA TAATTACAGT ATATCGGGAA	180
40	GACAGGTTCG AACCTGCGAC CCCTTGGTCC CAAACCAAGT GCTCTACCAA GCTGAGCTAC	240
	TTCCCGTATA ATTAACGCGC CCGATAGGAG TCGAACCCAT AACCTCTTGA TCCGTAGTCA	300
	AACGCTCTAT CCAATTGAGC TACGGGCGCA TATGTTTTTA TTGAAAATGG TGCCGAGGAC	360
45	CGGAATCGAA CCNGTAGTGA ATCACTCACC GCAGATTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3730:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3730:	
5	ATCTCTGGAT CAAAGCTTAC TTACAGCTCC CCAAAGCATA TCGTCGTTAG TAACGTCCTT	éo
	CATCGGCTTC TAGTGCCAAG GCATCCACCG TGCGCCCTTA ATAACTTAAT CTATGTTTCC	120
	ACCATTITA TAAGTCAAAC GTTAACATGA AGTTACGTTC TTTTATAAAA AGATTTAAAC	180
10	GCGTTATTAA TCTTGTGAGT GTTCTTTCGA ACACTAGCGA TTATTTCTTA TGAATTCAAG	240
	CTTATTTAAA ACTCTTTATT CACTCGGTTT TGCTTGGTAA AATCTATATT TTACTTACTT	300
·	ATCTAGTTTT CAATGTACAA ATAATGGTGG AGACTAGCGG GATCGAACCG CTGACCTCCT	360
<i>i</i> 5	GCGTGCAAAG CAGGCGCTCT CCCAGCTGAG CTAAGCCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 3731:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs	
20	(B) TYPE: nucleic acid	4"
	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3731:	
	TGATTACAAG TCAGTTGCTC TACCAATTGA GCTAGGCCGG CAATATGTAA GAATAAATGG	60
	TGGAGAATGA CGGGTTCGAA CCGCCGACCC TCTGCTTGTA AGGCAGATGC TCTCCCAGCT	120
10		
	GAGCTAATTC TCCGATTTAA AACTGCCTGG CAACGTTCTA CTCTAGCGGA ACGTAAGTTC	180
	GACTACCATC GACGCTAAGG AGCTTAACTT CTGTGTTCGG CATGGGAACA GGTGTGACCT	240
5	CCTTGCTATA GTCACCAGAC ATATGAATGT AATTTATACA TTCAAAACTA GATAGTAAGT	300
	AAAAGTGATT TTGCTTCGCA AAACATTTAT TTTGATTAAL GTCTTCGATC GATTAGTATT	360
	CGTCAGCTCC ACATGTCACC ATGCTTCCAC CTCGAACCTA T	401
o	(2) INFORMATION FOR SEQ ID NO: 3732:	****
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 397 base pairs	
5	(B) TYPE: nucleic acid	
3	(C) STRANDEDNESS: double	100
	(D) TOPOLOGY: linear	
1		
0	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3732:	
	CATTATTAAC GGCTATGGTT TAACTGAAGC ACCTCTTGTA CTTGTTAATA CACCGGAAAA	60
	TTCAAAACGT AAGCCAATGA GTATTGGTAA AGCAGTCATG TTCGTTGATG CACGTATCCT	120

	AAATGTCACG CCAGGATATT GGAATAAACC AGCAGAGACT GCCAAAGCAT TTCATGGTCG	. 240
	ATATTTATTA ACTGGTGACT TAGCGAGATG GACAACGATG GCGATATATT TATTATTGAC	300
<i>5</i>	CGCAAAAAG AATTAATCAT AACTGGTGGC GAAAATGTCT TACCATCCGA gTCGAAALGC	360
	TTaCtGaGCA TCCACTAGTA GACCGGTGTG TGGTCGT	397
10	(2) INFORMATION FOR SEQ ID NO: 3733:	,
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3733:	- 5 '
20	AAGTAACAAT CGTTCACCGT CGTGATGAGT TACGTGCACA GCGTATTTTA CAAGATAGAG	60
•	CATTCAAAAA TGATAAAATC GACTTTATTT GGAGTCATAC TTTGAAATCA ATTAATGAAA	
	AAGACGGCAA AGTGGGTTCT GTGACATTAA CGTCTACAAA AGATGGTTCA GAAGAAACAC	180
25	ACGAGGCTGA TGGTGTATTC ATCTATATTG GTATGAAACC ATTAACAGCG CCATTTAAAG	240
	ACTTAGGTAT TACAAATGAT GTTGGTTATA TTGTAACAAA AGATGATATG ACAACATCAG	300
	TACCAGGTAT TTTTGCAGCA GGnGATGTTC GCGACAAAGG TTACGCCAAA TTGTCACTGC	360
30		400
	CACGGCGATG GTAGTATGCC AGCGCAAGTG CCACGGAATG	400
	(2) INFORMATION FOR SEQ ID NO: 3734:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 480 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	٠
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3734:	•
	GCCGTTTACT GTGGCTTCGA TTCGTAGCTT CGCAGAAGCT AACCACTCCT CTTAACCTTC	60
45	CAGCACCGGG CAGGCGTCAG CCCTATACAT CACCTTACGG TTTAGCAGAG ACCTGTGTTT	120
	TTGATAAACA GTCGCTTGGG CCTATTCACT GCGGCTCTTC TGGGCGTTAA CCCTAAAGAG	180
50	CACCCCTTCT CCCGAAGTTA CGGGGTCATT TTGCCGAGTT CCTTAACGAG AGTTCGCTCG	240
	CTCACCTTAG AATTCTCATC TTGACTACCT GTGTCGGTTT GCGGTACGGG CACCTATTTT	300
	CTATCTAGAG GCTTTTCTCG GCAGTGTGAA ATCAACGACT CGAAGACACA ATGTCTTCTC	360

	TAGACGIGCA ATCCAATCGG CAACGCTTCG CCTAATCCTA ACTGGCGGIC CCCCCCCTAT	480
	(2) INFORMATION FOR SEQ ID NO: 3735:	
5 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3735:	
15	CGATCCCTTC AGCCGGACTT GGGTATTCCT CCAAAATTAT ATGGACCTTG CAGACTCGAA	60
•	CCTGCGACCG AACGGTTATG AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA	120
	TAATTTTACA ACTAATAAAT AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA	180
20	TGAACCGTAC GCTCTAGCCA GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	240
	TGGAGACTAG CGGGATCGAA CCGCTGGACC TCCTGCGTGC AAACAGnCGC TCTCCCAGCT	300
	GAGCTHAAGC CCCCATAATA ATTACAGTAT ATCGGGAAGA CAGGATTCGA ACCTGCGACC	360
25	CCTTGGTCCC CAAACCAAGT GGTTTMACCA AGTTGAGCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3736:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3736:	
	TGAGCCCGAC GAGCTACCGA ACTGCTCCAT CCCGCGATAA TAAAAAATAA TGGCGGAGGA	60
40	AGAGGGATTC GAACCCCCGC GGCCCGTTAA GGCCCTGTCG GTTTTCAAGA CCGATCCCTT	120
	CAGCCGGACT TGGGTATTCC TCCATTATTA TAGGTAAATC GCTATTAATT ATAAAATTAA	180
	ATGGCGGTCT CGACGGGAAT CGAACCCGCG ATCTCCTGCG TGACAGGCAG GCGTGTTAAC	240
45	CGCTACACTA CGAGACCATT AGTAAAACGG AGGAAGAGGG ATTCGAACCC CCGCGAGCCG	300
	TTAAGCCCCT GTCGGTTTTC AAGACCGATT CCTTCAGCCG GACTTGGGTA nTCnTCCAAA	360
50	ATTATATGGA CCTTGCAGGA CTCGAACTGC GAnCGAACGG	. 400
	(2) INFORMATION FOR SEQ ID NO: 3737:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3737:	•
	TAATAATTAC_AGTATATCGG_GAAGACAGGA_TTCGAACCTG_CGACCCCTTG_GTCCCAAACC	60
10	AAGTGCTCTA CCAAGCTGAG CTACTTCCCG TATAATTAAC GCGCCCGATA GGAGTCGAAC	120
٠	CCATAACCTC TTGATCCGTA GTCAAACGCT CTATCCAATT GAGCTACGGG CGCATATGTT	180
	TTTATTGAAA ATGGTGCCGA GGACCGGAAT CGAACCGGTA CGTGATCACT CACCGCAGGA	240
15	TTTTAAGTCC TGTGCGTCTG CCAGTTCCGC CACCCCGGCA CTATAAAAAT GGAGCAGAAG	300
	ACGGGATTCG AACCCGCGAC CCCAACCTTG GCAAGGTTGT ATTCTACCGC TGAACTACTT	360
20	CTGCATATGC GGGTGAAGGG AGTCGAACCC CCACGCCGTA	400
20	(2) INFORMATION FOR SEQ ID NO: 3738:	
·.	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3738:	
	AGAATGACGG GTTCGAACCG CCGACCCTCT GCTTGTAAGG CAGATGCTCT CCCAGCTGAG	60
,	CTAATTCTCC GATTTAAAAC TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AATCGGANCT	120
35	ACCATCGACG CTAAGGAGCT TAACTTCTGT GTTCGGCATG GGAACAGGTG TGACCTCCTT	180
	GCTATAGTCA CCAGACATAT GAATGTAATT TATACATTCA AAACTAGATA GTAAGTAAAA	240
	GTGATTTTGC TTCGCAAACA TTTATTTTGA TTAAGTCTTC GATCGATTAG TATTCGTCAG	300
40	CTCCACATGT CACCATGCTT CCACCTCGAA CCTATTAACC TCATCATCTT TGAGGGATCT	360
	TATAACCGAA GTTGGGAAAT CTCATCTTGG AGGGGGGCTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3739:	*
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
		*

2666

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3739:

	CACCACCCGA CATATTTTCC ACTTCCGAAC TTAATTGATA ATGTCCCAAA CCGACATCTT	120
	TAATTAATTG CTnTGCACGT TTTCTATCAA ATTTATCATT ACGTGCAAGT GATGGGAATA	180
5	TCATGTTATC TTCAATCGTT TCACCAAACA AGTCACTTTG CTGCATCAAA TAACTGATTC	240
	GTTGACGCAA TTCTTCCGGG TCATAATCAT TATAGGGTTT ACCTTTAAAA TAAAGTTCTC	300
	CACTAGTTGG ACTAAACAAA TTACATATHT GCTTTTGAAA TGTACTTTTA CCACTACCTG	360
10	ATGGACCTAT AATGGCAATA CTCTCGCCTT TATCTACTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3740:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3740:	
	ATCGCTTGCT TCTTTCCTCT CCTTCGGCTC TCGCTTACTC ATTTAGCTCT ACTAAACTCG	60
25	TTGCGCTCTT TTCTCGTTTC GTCAGATTCA AACGTTTTCA CTTCGCCAAG CCATTTTCT	120
	TTGTGTTTAC TTTTTATTTT GACGTTTTAG ACATAAAAAA AAGAGACCTT GCGGTCTCAA	180
	TGCGGCTCAT CGCATCCATT TTTTGCCTGG CAACGTTCTA CTCTAGCGGA ANTAATTGGC	240
30	TACCATCGAC GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT	300
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	360
35	AGATECAAAC GTTTTCACTT CGCCAAGCCA ETTTTCETTG TGTTTGCTTT TNA	413
	(2) INFORMATION FOR SEQ ID NO: 3741:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		• •
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3741:	
	CTTAGATGCT TTCAGCACTT ATCCCGTCCA CACATAGCTA CCCAGCTATG CCGTTGGCAC	60
	GACAACTGGT ACACCAGAGG TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTC	120
50	TCAAATTTCC TACGCCCACG ACGGATAGGG ACCGAACTGT CTCACGACGT TCTGAACCCA	180
	COMPANIENCE COCTATANTE COCCANCIACE CONNCICTTO GOACCONTA CAGCOCCAGO	-240

	TAAGCIGITA TCCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGCCCTTCC ATGCGGAACC	3,60
	ACCGGATCAN TAAGTCCGTC THTCGACCCT GHTGGACTTG	400
5	(2) INFORMATION FOR SEQ ID NO: 3742:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
		···
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3742:	. *
	GTTTTGAATG TATAAATTAC ATTCATATGT CTGGTGACTA TAGCAAGGAG GTCACACCTG	60
	TTCCCATGCC GAACACAGAA GTTAAGCTCC TTAGCGTCGA TGGTAGTCGA ACTTACGTTC	120
20	CGCTAGAGTA GAACGTTGCC AGGCAGTTTT AAATCGGAGA ATTAGCTCAG CTGGGGAGAG	180
	CATCTGCCTT ACAAGCAGAG GGTCGGCGGT TCGAACCCGT CATTCTCCAC CATTTATTCT	240
	TACATATTGC CGGCCTAGCT CAATTGGTAG AGCAACTGGA CTTGTAATCA GTAGGTTGGG	300
25	GGTTCAAGTC CTCTGGCCGG CACCATGGGA AGAGCCATTA GCTCAGTTGG TAGAGCATCT	360
	GACTTTTAAA TCAGAGGGTT CAGAGGTTnC GAATCCGCTA	400
	(2) INFORMATION FOR SEQ ID NO: 3743:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3743:	
40	TCGCAATAAC CGCATCAAAT GTATTGCCTA AAAAGGCTGG ATTTTCCAAT GTGTCATCAT	60
	TACGGATCTC GAAGTTCTCA TAACGCACAT CATGTAATAA CATATTCATG CGTGCTAAGT	120
•	TGTATGTAGT ATTGTTACGT TCTTGTCCGA AATAACGATA CACTTGCGTT TCTTTACCAA	180
45	CACGTAACAA CAATGAACCG GAACCACATG TTGGGTCGTA CACGTGACGT AATTTATCTT	240
	TACCGTCTGT GACAATCTTC GCCAGTATCT TAGATACTTG TTGTGGTGTA TAGAACTCGC	300
	CTGCTTTTTT ACCCGCTGTC GCCGCAAAGC GCCCGATTAG GAATTCATAT GCATCACCTA	360
50 ,	ACATATCAAT TTCCATGGTC ACTGTGAACG AATGGGTAAG	400
	(2) INFORMATION FOR SEQ ID NO: 3744:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3744:	
10	CTACTGATTA CAAGTCAGTT GCTCTACCAA TTGAGCTAGG CCGGCAATAT GTAAGAATAA	60
	ATGGTGGAGA ATGACGGGTT CGAACCGCCG ACCCTCTGCT TGTAAGGCAG ATGCTCTCCC	120
	AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA	180
15	GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG AACAGGTGTG	240
	ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA ACTAGATAGT	300
	AAGTAAAAGT GATTTGCTTC GCAAAACATT ATTTGATTAA GTCCTCGATC GATAGTATCG	360
20	TCAGCTCCAC ATGTCACCAT GCTTCCANCT CGNACCTATT	400
	(2) INFORMATION FOR SEQ ID NO: 3745:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3745:	
	CATAAGTAAA CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTAT	60
35	AAAAAGATTT AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAACACTA GCGATTATTT	120
	CTTATGAATT CAAGCTTATT TAAAACTCTT TATTCACTCG GTTTTGCTTG GTAAAATCTA	180
	TATTTTACTT ACTTATCTAG TTTTCAATGT ACAATTTCTT TTTAGTCAAG CGCTCGCATA	240
40	CTGCTTTATT nTCAAAAAAT CAAATGCTCA TTTACAAAAG TAAACTCCGC TTTAATTTTC	300
	TTAATGCATT GTCTAACAAC CGCTTGCTTT AAAAAGAATA GATTGnCAAG CGCTCGCATA	360
45	AGCANTATCA CTTMAACCAA AAAATA	386
45	(2) INFORMATION FOR SEQ ID NO: 3746:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 677 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAGGTGAAAA GCACCCGGA AGGATGTTGA AATAGAACCT GAAACCGTGT GCTTACAAGT	60
	AGTCAGAGCC CGTTAATGGG TGATGGCGTG CCTTTTGTAG AATGAACCGG CGAGTTACGA	120
5	TTTGATGCAA GGTTAAGCAG TAAATGTGGA GCCGTAGCAK AACANGGTCT GAATAGGGCG	180
	TTTAGTATTT GGTCGTACCG AMAACCAGGT GATCTACCCT TGGTCAGGTT GAAGTTCAGG	240
10	TAACACTGAA TGGAGGACCG AACCGACTTA CGTTGAAAAG TGAGCGGATG AACTGAGGGT	300
	AGCGGAGAAA TTCCAATCGA ACCTGGAGAT AGCTGGTTCT CTCCGAAATA GCTTTAGGGC	360
	TAGCCTCAAG TGATGATTAT TGGAGGTAGA GCACTGTTTG GaCGAGGGGC CCCTCTCGGG	420
15	ttaccaattc agacaaactc cgaatgccaa ttaatttaac ttggggagtc agaacatggg	480
	TGATAAGGTC CGTGTTCGAA AGGGAAACAG CCCAGACCAC CAGCTAAGGT CCCAAAATAT	540
	ATGTTAAGTG GAAAAGGATG TGGCGTTGCC AGACAACTGA GGATGTTGGC TTAGAAGCAG	600
20	CCATCATTTT AAAGAGTGCG TAATAGCTCA CTAGTCGAAG TGACACTGCG CCGAAAATGT	660
	GACCGGGCnT AAACnAT	677
25	(2) INFORMATION FOR SEQ ID NO: 3747:	
25	(A) CROVENCE GUADA CERTACO	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs	
;	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) Topologi. Timear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3747:	
35	GTCCAATGAT TCATATGCTT TATTATCACG GTATTGCCTT TGAATCGCAT GCACAAAATA	60
	TGATGCTCAT TCATGAAAAT GGTTGGCCTA CACGTATTGC CTTAAAAGAT TTCCATGATG	120
	GTGTTCGTTT TAAGCGTGAC ATTTAAGTGA AGCTGCTTCA CACCTGACAT TAAAGCCAAT	180
40	GCCAGAAGCA CATAAAAAG TGAATAGTAA TTCATTTATT GAAACAGATG ACGAACGTTT	240
	AGTACGCGAC TTTTTACATG ATGCATTTTT CTTTATTAAT ATCGCCGAAA TCATCTTATT	300
45	TATTGAAAAG CAATATGGTA TCGATGAGGA GCTGCAATGG CAATGGGKTA AAGGCATCAT	360
0	CGAGGCGTAT CCAGraGcAT TTCCaGAGTT KGAATAACTA TCCAACCATT CGGTTTT	417
	(2) INFORMATION FOR SEQ ID NO: 3748:	
50		
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3748:	
	ATGCTCTCCC AGCTGAGCTA ATTCTCCGAT TTAAAACTGC CTGGCAACGT TCTACTCTAG	60
5	CGGAACGTAA GTTCGACTAC CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG	120
	AACAGGTGTG ACCTCCTTGC TATAGTCACC AGACATATGA ATGTAATTTA TACATTCAAA	180
	ACTAGATAGT AAGTAAAAGT GATTTTGCTT CGCAAAACAT TTATTTTGAT TAAGTCTTCG	240
10	ATCGATTAGT ATTCGTCAGC TCCACATGTC ACCATGCTTC CACCTCGAAC CTATTAACCT	300
	CATCATCTTT GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA	360
15	TGCTTAGATG CTTTCAGCAC TTATCCCGTC CACACATAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3749:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3749:	,
	TCGGCTCTCG CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC	60
30	AGATTCAAAC GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTACTTT TTATTTTGAC	120
	GTTTTAGGCA TAAAAAAAA AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTTT	180
	TGCCTGGCAA CGTTCTACTC TAGCGGAAGT AAGTTGGGCT ACCATCGTCG CTAAAGACCT	240
35	TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCTT CGGCTCTCGC TTACTCATTT	300 🥷
	AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG TTTTCACTTC	360 ₇₉
	GCCAAGCCAT TTTTTCTTTG TGTnTACTTT TTAATTTTGA	400
40	(2) INFORMATION FOR SEQ ID NO: 3750:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3750:	
	ATAAAAAAA GAGACCTTGC GGTCTCAAAT GCGGCTCATC GCATCCATTT TTTGCCTGGC	60
	AACGTTCTAC TCTAGCGGAA CGTAAGTTGG CTACCATCGT CGCTAAAGAC CTTTCTTGAC	. 120

	TAAACTCGTT GCGCTCTTTT CTCGTTTCGT CAGATTCAAA CGTTTTCACT TCGCCAAGCC	240
	ATTITTCTTT GTGTTTACTT TTTATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC	300
5	GGTCTCAATG CGGCTCATCG CATCCATTTT TTGCCTGGGC AACGTTCTAC TCTAGCGGAA	360
	nTAANTTGGG CTACCATCGA CGCTAAGAAC CTTTCTTGGA	400
10	(2) INFORMATION FOR SEQ ID NO: 3751:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3751:	
20		60
	CACTCACCGC AGATATTTAA GTCCTGTGCG TCTGCCAGTT CCGCCACCCC GGCACTATAA	Ţ,
	AAATGGAGCA GAAGACGGGA TTCGAACCCG CGACCCCAAC CTTGGCAAGG TTGTATTCTA	120
25	CCGCTGAACT ACTTCTGCAT ATGCGGGTGA AGGGAGTCGA ACCCCCACGC CGTAAGCTNA	180
	GNATTCCTAA GTCTAGTGCG TCTGCCAATT CCGCCACACC CGCAAATGGT GAGCCATAGA	240
	GGATTCGAAC CTCTGGACCC TCTGATTAAA AGTCAGATGC TCTACCAACT GGAGCTAATG	300
30	GCTCTTTCCA TGGTGCCCGG CCAGAGGACT TGGAACCCCC AACCTACTGA TTACAAGTCA	360
	GTTGCTCTAA CCAATTGAGC TAAGCCGGGC AATATGTTAn	400
	(2) INFORMATION FOR SEQ ID NO: 3752:	· -
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3752:	
45	TTANANANCC GCGACATTAT AGAGCCAATC ACTAGCCTAT CTCAGAATCA CCAACGAATC	60
	CTTCATTATT AAGGAATCTA GGCATCTTTA CGGCGTGGTT CTAATCGCAT CTTTTTCAAT	120
	CTAAGTGCGT TTGTGACAAC ACTTACTGAA CTTAGTGCCA TTGCAGCACC AGCAACCCAT	180
50	GGCGCAAGTA AGCCCAATGC AGCTATAGGG ATACCGGCAA TATTATAGCC GAATGCCCAA	240
	AATAGATTTT GACGAATATT ACGAATGGTT GCTTTACTTG CATAAATGGC TTTAGGAATA	300
55	AGCATCAAGT CGCCACCAAG AATAGTAATA TCAGCTGCTT CAATGGGCAA CTTCTGTTAC	360

(2) INFORMATION FOR SEQ ID NO: 3753:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3753:	,
	CCTTGCGGTC TCAATGGCGG CTCATCGCAT CCATTTTTTG CCTGGCAACG TTCTACTCTA	60
15	GCGGAACGTA AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT GACAATCGCT	120
	TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA CTCGTTGCGC	180
f	TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT TTCTTTGTGT	240
20	TTACTTTTTA TTTTGACGTT TTAGACATAA AAAAAAGAGA CCTTGCGGTC TCAATGCGGC	300
	TCATCGCATC CATTTTTGC CTGGCAACGT TCTACTCTAG CGGAACGTAA GTGGCTACCA	360
	TCGACGCTAA GAACCTTTCT TGACTGGTGA CAAnCGCTTG	400
25	(2) INFORMATION FOR SEQ ID NO: 3754:	**.
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3754:	
	CTGAGCTAAG CCCCCAAATA GGTATTAAAT TAATGGTGGG CCTAAGTGGA CTCGNACCAC	
	CGACCTCACG CTTATCAGGC GTGCGCTCTA ACCAGCTGAG CTATAGGCCC ATTAATTTGA	120
40	ATGANCAAAC ATTCAAAACT GAATACAATA TGTCACGTTA TTCCGCATCT TCTGAAGAAG	180
	ATGTTCCGAA TATATCCTTA GAAAGGANGT GATCCAGCCG CACCTTCCGA TACGGCTACC	240
45	TTGTTACGAC TTCACCCCAA TCATTTGTCC CACCTTCGAC GGCTAGCTCC TAAAAGGTTA	300
4 5	CTCCACCGGC TTCGGGTGTT ACAAACTCTC GTGGTGTGAC GGGCGGTGTG TACAAAACCC	360
	GGGAACGTAT TCACCGTAGC A	381
50	(2) INFORMATION FOR SEQ ID NO: 3755:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3755:	
5	AGCTCCCCAA AGCATATCGT CGTTAGTAAC GTCCTTCATC GGCTTCTAGT GCCAAGGCAT	60
	CCCCGTGCGC CCTTAATAAC TTAATCTATG TTTCCACCAT TTTTATAAGT CAAACGTTAA	120
	CATGAAGTTA CGTTCTTTTA TAAAAAGATT TAAACGCGTT ATTAATCTTG TGAGTGTTCT	180
10	TTCGAACATA GGCGATTATT TCTTATGAAT TCAAGCTTAT TTAAAACTCT TTATTCACTC	240
	GGTTTTGCTT GGTAAAAACn ATATTTTACT TACTTATCTA GTTTTCAATG TACAATTTCT	300
*	TTTTAGTCAA GCGCTCGCAT ACTGCTTTAT TTTCCATAAG CAATANCACT TTAACCAAAA	360
15	AATATTTGGA ATGTTNAAAT AAACATNCAA AACTGAATAC	400
•	(2) INFORMATION FOR SEQ ID NO: 3756:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs	
•	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) Topologi: Timear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3756:	
	CTACTCACAC CGGCATTCTC ACTTCTAAGC GCTCCACATG TCCTTACGAT CATGCTTCAA	60
30	CGCCCTTAGA ACGCTCTCCT ACCATTGTCC AAAGGCATGC GCACAGCTTC GGTAATATGT	120
	TTAGCCCCGG TACATTTTCG GCGCATGTCA CTCGACTAGT GAGCTATTAC GCACTCTTTA	180
35	AATGGATGGC TGCTTCTAAG CCAACATCCT AGTTGTCTGG GCAACGCCAC ATCCTTTTCC	240
	ACTTAACATA TATTTTGGGA CCTTAGCTGG TGGTCTGGGC TGTTTCCGGn GGGGNACACG	300
٠	GACCTTATCA CCCATGTTCT GACTCCCAAG TTAAATTAAT TGGCATTCGG ATTTGTCTGA	360
40	ATCGGTAACC CGAGAGGGCC CnTCGTCCAA ACAGTGCTCT	400
	(2) INFORMATION FOR SEQ ID NO: 3757:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 458 base pairs	
45	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(8)	
٠		
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3757:	
	/VT\ ORKONIOS SESSIONES	. `
		C \(\)

	ATGGGAACAG GTGTGACCTC CTTGCTATAG TCACCAGACA T	atgaatgta	ATTTATACAT	180
	TCAAAACTAG ATAGTAAGTA AAAGTGATTT TGCTTCGCAA A	AACATTTATT	TTGATTAAGT	240
5	CTTCGATCGA TTAGTATTCG TCAGCTCCAC ATGTCACCAT G	CTTCCACCT	CGAACCTATT	300
	AACCTCATCA TCTTTGAGGG ATCTTATAAC CGAArTttGG G	BAALCTCATC	TTGAGGGGG	360
_	GCTCATGCTT AGATGCTTCA GCACTTATCC CGTCCACACA T	ragctancca	GCTATGCCGT	420
0	THECACGACA ACTESTACAC CAGANGTATE TCCATCCC		• ,	458
	(2) INFORMATION FOR SEQ ID NO: 3758:			
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	3		
0		to the specific	*	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37	758:		
	AGCGCTCGCA TACTGCTTTA TTTTCAAAAA ATCAAATGCT C	CATTTACAAA	AGTAAACTCC	60
5	GCTTTAATTT TTCTTAATGC ATTGTCTAAC AACCGCTTTC T	ITTAAAAAGA	ATAGATTGTC	120
	AAGCGCTCGC ATAAGCAATA TCACTTTAAC CAAAAAATAT T	ITGAATGTTA	AATAAACATT	180
o .	CAAAACTGAA TACAATATGT CACGTTATTC CGCATCTTCT C	gaagaagatg	TTCCGAATAT	240
	ATCCTTAGAA AGGAGGTGAT CCAGCCGCAC CTTCCGATAC	GGCTACCTTG	TTACGACTTC	300
	ACCCCAATCA TTTGTCCCAC CTTCGACGGC TAGCTCCTAA	AAGGTTACTC	CACCGGCTTC	360
5	GGGTGTTACA AACTCTCGTG GTGTGACGGG CGGTGTGTAC			400
	(2) INFORMATION FOR SEQ ID NO: 3759:		•	
o .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3	759:		•
	GACTTGGGTA TTCCTCCAAA ATTATATGGA CCTTGCAGGA	CTCGAACCTG	CGACCGAACG	60
o	GTTATGAGCC GTTAGCTCTA ACCAACTGAG CTAAAGGTCC	TAATATAAT	TITACAACTA	120
	ATAAATAGTG GCGGTGGAGG GGATCGAACC CCCGACCTCA	CGGGTATGAA	CCGTACGCTC	180
	TAGCCAGCTG AGCTACACCG CCTTATATAG TTTGTAAATA	ATATGGTGGA	GACTAGCGGG	240

	TAATAATTAC AGTATATCGG GAAGACAGGA TTCGAACCTG CGACCCCTTG GTCCCAAACC	360
	AAGTGCTCTA CCAAGCTGAA GCTACTTTCC CGTATAATTA	40,0
5	(2) INFORMATION FOR SEQ ID NO: 3760:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3760:	
,	CACTTAATGC CCGTACCACA CATAGCTACC CAGCTATGCC GTTGGCACGA CAACTGGTAC	60
	ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC AGCTCCTCTC AAATTTCCTA	120
20	CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC TGAACCCAGC TCGCGTACCG	180
	CTTTAATGGG CGAACAGCAA nCCCTTGGGA CCGACTACAG CCCCAGGATG CGATGAGCCG	240
	ACATCGAGGT GCCAAACCTC CCCGTCGATG TGAACTCTTG GGGGAGATAA GCCTGTTATC	300
25	CCCGGGGTAG CTTTTATnCG TTGAGCGATG GNCCTTNCAT GCGGAACACC GGATCACTAA	360
	GTCCGTCTTT CGACCCTGCT CGACTTGTAG GTCTCGCAGT	400
	(2) INFORMATION FOR SEQ ID NO: 3761:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 623 base pairs (B) TYPE: nucleic acid	. *
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3761:	
40	TATGTATTTT ATAATGTACA GCTCGTTGAN TCNTATTTTT CCTTATATTA AGTGCCATTA	60
	ATACAAAACC TAGCTCTCGT TTAACTTTAT TTATTCCTCG AACTGACATT CGAGTGAACC	120
	CAAAATAGCC TTCATAAATC CAAAAACAGG CTCTACATCA ATTTTTCTTT GACTATAGAT	180
45	TTTTTCGTT TCTGGTTCAG AAAGCTTTTG ATTAATTTGG ACTTTAAAGT ATTCCCAATT	240
	ATAATTCTTC ATGATTTTCT TATTGGATTT CGAATTTGGT TTCATGCATT GATGTCTCAA	300
50	AGAACATGAT GAACAGTCAT CACATTCATA TAGTTTGAAG TCTCGTTTAA AACCATATCT	360
50	ATCATTACGG TATGCATATC TTTTAAAACC TATTCTTTTG TTATTAGGAC ATATAAATTC	420
	ATCATTAAGT TCGTCATATT TCCAATTTTA AGTGTTGAAA ATGTCACTTT TAAACTTTCT	480

	AATAGCCATA TAGTTTTGCT CACTACCATA ACCGGCATCA GCTACAAATA TACTCCGGTA	600
	AATAACCGAG GGATTGTTGG AAT	623
5	(2) INFORMATION FOR SEQ ID NO: 3762:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 718 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3762:	
	ATTTTAAAAA TAGTTCTTTA AATTATATAC CCACCACATT TGGTGGAGAA CCTAAAAAAA	60
	AGCACTTCCC AAAAATGGAA AGTGCAAGTA GTGAGCCATA GAGGATTCGA ACCTCTGACC	120
20	CTCTGATTAA AAGTCAGATG CTCTACCAAC TGAGCTAATG GCTCTAATGG CTGGGCCTAG	180
	CTGGATTCGA ACCAACGAGT GACGGAGTCA AAGTCCGTTG CCTTACCGCT TGGCTATAGC	240
	CCAATATATA GATGGTGGAG GGGGGCAGAT TCGAACTGCC GAACCCGAAG GAGCGGATTT	300
25	ACAGTCCGCC GCGTTTAGCC ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT	360
•	CaAAATGGTG GAGAATGACG GGTTCGAACC GCCGACCCTC TGCTTGTAAG GCAGATGCTC	420
	TCCCAGCTGA GCTAATTCTC CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG	480
30	CCGTGAAAGG GCGGTGTCTT AACCGCTTGA CCAAGGAGCC ATGGCTCCAC AGGTAGGACT	540
	CGAACCTTAC GACCGATCGG TTTAACAGCC GATAGCTCTT ACCACTGGAG CTACTGTGGG	600
35	ATTAATATTA TGCCTGGGCA ACGTTCTTAC TCTTAGCGGA ACGTTAAGTT CCGACTTACC	660
	ATCCGACGCT AAGGAGCTTT AACTTTCTnG TGGTTCCGGC ATGGGGGGAA CAGGTGGT	718
	(2) INFORMATION FOR SEQ ID NO: 3763:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3763:	
	THEACTERC GERGATTITT ARGICETGIG CGTCTGCERG TTCCGCCRC CCGGCRCTAT	60
50	AAAAATGGAG CAGAAGACGG GATTCGAACC CGCGACCCCA ACCTTGGCAA GGTTGTATTC	120
	TACCGCTGAA CTACTTCTGC ATATGCGGGT GAAGGGAGTC GAACCCCCAC GCCGTAAGCT	180
<i>55</i>		*

	AGGATTCGAA CCTCTGGACC CTCTGATTAA AAGTCAGATG CTCTACCAAC TGGAGCTAAT	300
	GGCTCTTCCA TGGTGCCGGC CAGAGGACTT GGAACCCCCA ACCTACTGGA TTTACAAGTT	360
5	CAATTGCTCT AnCAATTTGA GCTAAGGCCG GGCAATATGT	400
	(2) INFORMATION FOR SEQ ID NO: 3764:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	.00
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3764:	
	TTAAAGTATT CCCAATTATA ATTCTTCATG ATTTTCTTAT TGGATTTCGA ATTTGGTTTC	60
20	ATGCATTGAT GTCTCAAAGA ACATGATGAA CAGTCATCAC ATTCATATAG TTTGAAGTCT	120
*.	CGTTTAAAAC CATATCTATC ATTACGGTAT GCATATCTTT TAAAACCTAT TCTTTTGTTA	180
	TTAGGACATA TAAATTCATT ATTAAGTTCG TCATATTTCC AATTTTGAGT GTTGAAAATG	240
25	CCACTTTTAA ACTTTCTAGT TTTATCTTTA ATAAACATGC CATACGTAAT AAGTGGCGTT	300
	TTATTAAAAT CATCTATAAT AGCCATATAG TTTTGCTCAC TACCATAACC TGCATCAGCT	360
. *	ACAATATACT CTGGTAAATA ACCGAAGGAT TTTGAATCAT TGTTAAAAAT GGGATTAATG	420
30	TTCTAGTATC TGTTGGGTTT TGAAATAGGT CATAGGATAA AACAAATTGx GAATTTGTCG	480
,	CTATTTGGTA AATTGGTATC CTGGCTTAAG TTGGGCCATT TTTCCATATG GGCCTTCCTT	540
35	CCATTCTCCA TAAAAGTTGG CATCATGGAT CCAGATCCnG TTTTAGGAAA ACCTAATTCC	600
	AACCTTTAAG	610
	(2) INFORMATION FOR SEQ ID NO: 3765:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3765:	0
	CTTCTTGGTG CTGCATATCC CCTACAATAA TTAAACCTTT TTTCTTATTT AAAATGTGTC	60
50	TTAATGCCGA TGCATCTATA CTTTTTTGAT AGTGCGGTAA AATCTTCATC TCAGANGTTA	120
	ACAATTCTGT TGCATTCAAA TCAGGTGTTA ACGGATCTCT AAATGGCAAG TTAAAATGAA	180

	CACAATGGTC TCTTTACTAT CATCCGCAAT AGGCATATCG AACTCATARC TTACATAATT	300
	ATTAAACATA TTTACTTGAT TAATCGCTTG TGGTGCGCCT ACAnTTCTTA ATTCAGCGGA	360
5	CGGTCACTTG TTAAAACGGT TTAAGGTATT CTACTAATTn	400
	(2) INFORMATION FOR SEQ ID NO: 3766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3766:	
	Chtttaacct tittaaggaa tcctgctaat gcgggttitg gcattitcga nintitgta	60
20	ECTCACGCAA ECTTGGTGGT CATTCAGTTC GTATATGGCA TCCATTAAGA CGCGAAGATC	120
	AAATGGACTA TTGATGACTT CTGGAATACC ACGATCTATA TTTAGTAATT GATAAACAGC	180
*	TTCCATGGCA GTACGAACCG AATATTCTGT TGTAAATACA GTGTCTCGCT CTGTTTCTGC	240
25	AAAGTTACCA ATAAATGCTA AGTTCTGAGA TTGATGCGGG ACGACTAAAG GTCTGTCGCC	300
	GATAGCACGC GTCATGAAAT AAGATGTGAT ATATGGCATA TAAACAGGGA ATCGTATTAG	360
30	ATGCATGTnT TGCTAAGTCT TCAATTTTGG TCAGTTGATA CACCTAAGTG GATACAGCCA	420
	TTCTTGGCAT ATTTCATTAC CACTACATAC T	451
	(2) INFORMATION FOR SEQ ID NO: 3767:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3767:	
	ACACGTGAAC GTCTTCAAAT GGAAGTACGT GACGTTCACT ACTCTCACTA TGGCCGTATG	60
45	TGTCCAATTG AAACACCTGA GGGACCAAAC ATTGGATTGA TTAACTCATT ATCAAGTTAT	120
	GCACGTGTAA ATGAATTCGG CTTTATTGAA ACACCATATC GTAAAGTTGA TTTAGATACA	180
50	CATGCTATCA CTGATCAAAT TGACTATTTA ACAGCTGACG AAGAAGATAG CTATGTTGTA	240
	GCACAAGCAA ACTCTAAATT AGATGAAAAT GGTCGTTTCA TGGATGATGA AGTTGTATGT	300
	CGTTTCCGTG GTAACAATAC AGTTATGGCT AAAGAAAAA TGGATTATAT GGATGTATCG	360
	·	

(2) INFORMATION FOR SEQ ID NO: 3768:

(i) SEQUENCE CHARACTERISTICS:

5 .	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3768:	
* 4	and the final term of the party of the contract of the contrac	, .
	CCTACGACCG ATCGGTTAAC AGCCGATAGC TCTACCACTG AGCTACTGTG GATTAATATT	60
15	ATGCCTGGCA ACGTTCTACT CTAGCGGAAn TAAGTTCGTA CTACCATCGA CGCTAAGGAG	120
	CTTAACTTCT GTGTTCGGCA TGGGAACAGG TGTGACCTCC TTGCTATAGT CACCAGACAT	180
	ATGAATGTAA TTTATACATT CAAAACTAGA TAGTAAGTAA AAGTGATTTT GCTTCGCAAA	240
20	ACATTTATTT TGATTAAGTC TTCGATCGAT TAGTATTCGT ChGCTCCACA TGTCACCATG	300
,	CTTCCACCTC GAACCTATTA ACCTCATCAT CTTTGAGGGA TCTTATAACC GAAGTTGGGG	360
	AAATCTCATC CTGNAGGGGG CTTCATGCTT AGATGCTTTC	400
25	(2) INFORMATION FOR SEQ ID NO: 3769:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	<i>₹</i>
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3769:	-
•	CTTGACCGAA GTTCTTACCT ACATCACCTA AATTAATGAC ATGTCCACCA GTCATATACT	- 60
	CTAATCCATG GTCGCCGATA CCTTCAACGA CAACATCTAC ACCACTATTT CTAATACAGA	120
40	ATCTTTCTnC TGCACTACCG TTAATAAATG CCTTACCACT TGTCGCACCA TAGAATGAGA	180
	CGTTACCAGC AATAATTTCA TTTTGTCGTT CTTCAAAAGG TGCTTTGACA ATGACCGTAC	240
	CACCAGATAA TCCTTTACCA ACATAGTCAT TCGCATCTCC AGTATGATGA ATCATTAAGC	300
45	CTTTCGGTGC ATATGCTGCA GGACTTTGGA CCAGCATGAC CATTCGTATA AACATTAATT	360
	GTATTTCAG GGAGGTCCTG CTTCTCCATA TTGTTTCGGA	400
50	(2) INFORMATION FOR SEQ ID NO: 3770:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3770:

5	CATTACGTAA TTAAAAGATA GTCATTAAGA GAGGnTGATA ACCATGCAAG AAGCATACAT	6
	TGTAGCTTAT GGGCGTTCAG CGCAGCGAAA CAAAGCAAGG CGCATTATTC CACGAAAGAC	12
	CTGATGATGT CGCAGCCAAA GTATTACAAG GCGTATTGAA ACGTATTGAC GGAAAATTCA	18
10	ATAAGAATAT GATTGAAGAT GTCATTGTTG GTACGGCTTT TCCAGAAGGA TTACAAGGCC	24
	AAAACATTGC ACGAACGATT GCATTGCGTG CGGGATTATC TGACACGGTA CCGGTCAAAC	30
15	AGTGGAATCG CTACTGCTCA TCCAGGnTTT ACAAACCATT CGCGATTGCA GGCCAATCAA	36
,,	ATTATGGCING GTCCAAGGAG ATATACTTGT TAGCTGGTGG	40
	(2) INFORMATION FOR SEQ ID NO: 3771:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3771:	
30	ACTCTCTTGC ANTAAGGGCA GGGAATGACC GATGGGATTA AAAGATCAAG CTGTTACCTG	6
50	GGGAAGGTAT TTTCATCAAT TTCCAGAACT ATCCGATAAA GAATTTAAGA CTACACAAAA	12
	AATTAAAGAT ATTTTAACAG AACATCATAT TAGAATATTA GACTTACCAC TTGCGACTGG	18
35	GCTTGTTGCT GAAGTGGGAC AAGGTCTGAG TTGTATAGCT GTTCGGGCTG ACATTGATGC	240
	TTTACCGATT CAAGAGCTTG ITGAACAGGA TTTTAAATCT GAAAATGAAG GTGTTATGCA	30
	TGCGTGTGGT CATGATATTC ACATGGCTAG NATTTTGGCT ACAGCTGGTA AAATTAAAAG	360
10	AGATTGAGGG CACTCTTACT GGGCGTGTTA AATCCATTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3772:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3772:	
	TITATTTTGA CGTTTTAGAC ATAAAAAAA GAGACCTTGC GGTCTCAATG CGGCTCATCG	6

2681

	GCTAAGAACC TTTCTTGACT TGTGACAATC GCTTGCTTCT TTCCTCTTCT TCGGCTCTCG	180
	CTTACTCATT TAGCTCTACT AAACTCGTTG CGCTCTTTTC TCGTTTCGTC AGATTCAAAC	240
. 5	GTTTTCACTT CGCCAAGCCA TTTTTCTTTG TGTTTGCTTT TTATTTTGAC GTTTTAGACA	3 0.0
	TAAAAAAAA AGACCTTGCG GTCTCAATGC GGCTCATCGC ATCCATTTTT TGCCTGGGCA	360
	ACGTTCTACT CTAGCGGGAA CGGTAAGTTC GGACTTACCA	400
10	(2) INFORMATION FOR SEQ ID NO: 3773:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	8
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
8 m		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3773:	
	TTGATATTCC TGTACCACCT ATAATCGTTT TAATCGATGG GGGGACGCAT AGGNATAGGC	60
9	GACGTGCGAT TGGATTGCAC GTCTAAGCAG TAAGGCTGAG TATTAGGCAA ATCCGGTACT	120
25	CGTTAAGGCT GAGCTGTGAT GGGGAGAAGA CATTGTGTCT TCGAGTCGTT GATTTCACAC	180
	TGCCGAGAAA AGCCTCTAGA TAGAAAATAG GTGCCCGTAC CGCAAACCGA CACAGGTAGT	240
	CAAGATGAGA ATTCTAAGGT GAGCGAGCGA ACTCTCGTTA AGGAACTCGG CAAAATGACC	300
30	CCGTAACTTC GGGAGAAGGG TGCTCTTTAA GGTTAACGCC CAGAAGAGCC GCATGGAATA	360
	GGCCCANCGA NGTTTATTCA AAAACACAGT CTCTGCTAAA	400
35	(2) INFORMATION FOR SEQ ID NO: 3774:	
· •	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	, VIII.
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	•
T	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3774:	-
. 45 ∖ ⊥	TACTTAGACA ATCGAAAGTG TACATTATTA AATTATCATT TCCAGTTCTA CTCTAGCGGA	60
	ACGTAAGTTG GCTACCATCC TCGCTAAGAA CCTTTCTTGA CTTGTGACAA TCGCTTGCTT	120
50	CTTTCCTCTC CTTCGGCTCT CACTTACTCA TTTAGCTCTA CTAAACTCGT TGCGTTCTTT	180
	TCTCGTTTCG TCAGATTCAA ACGTTTTCAC TTCGCCAAGC CATTTTTCTT TGTGTTTGCT	240
	TTTTATTTTG ACGTTTTAGA CATAAAAAA AGAGACCTTG CGGTCTCAAA TGCGGCTCAT	300

	GACGCTAAGG AGCTTAAACT TCTGTGTTTC GGCATGGGGA	400
	(2) INFORMATION FOR SEQ ID NO: 3775:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Torollog1: Timeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3775:	
15	CGGTTTATCA AGAATGGAAA GAGTTGTACG TGAAAGAATG TCAATTCAAG ATACTGAGTC	60
	TATCACACCT CAACAATTAA TTAATATTCG ACCTGTTATT GCATCTATTA AAGAATTCTT	120
	TGGTAGCTCT CAATTATCAC AATTCATGGA CCAAGCAAAC CCATTAGCTG AGTTAACGCA	180
20	TAAACGTCGT CTATCAGCAT TAGGACCTGG TGGTTTAACA CGTGAACGGC TCAAATGGAA	240
	GTACGTGACG TTCACTACTC TCACTATGGC CGGTGTGTCC AATTGAAACA CCTGAGGGAC	300
	CAAACATTGG ATTGATTAAC TCATTATCAG TTATGCACGT GTAAATGGAA TTCGGCTTTA	360
25	TTGAAACACC ATATCGTAAA AGTTGATTTG GnTACACAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3776:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3776:	
	AGCTTACTTA CAGCTCCCCA AAGCATATCG TCGTTAGTAA CGTCCTTCAT CGGCTTCTAG	60
40	TGCCAAGGCA TCCACCGTGC GCCCTTAATA ACTTAATCTA TGTTTCCACC ATTTTTATAA	120
	GTCAAACGCT CACATACGGC TTCGTTTTCA TTATTTTAAA TGCTCATTTA CATAAGTAAA	180
45	CTCTGCTTTA AAATAATTTA ACTCATTGTC TGCTAAACGT TTTCTTTTAT AAAAAGATTT	240
45	AAACGCGTTA TTAATCTTGT GAGTGTTCTT TCGAAChTAG GCGATTATTT CTTATGGAAT	300
	TCAAGCTTAT TTAAAACTCT TTATTCACTC GGTTTTGCCT GGGTAAAATC TANATTTTAC	360
50	TTAChTATCT AGGTTTTCAA TGTACAAATA ATGGTGGGGC	400
	(2) INFORMATION FOR SEQ ID NO: 3777:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3777:		
	AATTATAAAA TTAAATGGCG GTCTCGACGG GAATCGAACC CGCGATCTCC	TGCGTGACAG	60
10	GCAGGCGTGT TAACCICTAC ACTACGAGAC CATTAGTAAA ACGGAGGAAG	AGGGATTCGA	120
	ACCCCCGCGA GCCGTTAAGC CCCTGTCGGT TTTCAAGACC GATCCCTTCA	GCCGGACTTG	180
	GGTATTCCTC CAAAATTATA TGGACCTTGC AGGACTCGAA CCTGCGACCG	AACGGTTATG	240
15	AGCCGTTAGC TCTAACCAAC TGAGCTAAAG GTCCTAAATA TAATTTTACA	ACTAATAAAT	300
	AGTGGCGGTG GAGGGGATCG AACCCCCGAC CTCACGGGTA TGAACCGTAC	GCTCTAGCCA	360
	GCTGAGCTAC ACCGCCTTAT ATAGTTTGTA AATAATATGG	•	400
20	(2) INFORMATION FOR SEQ ID NO: 3778:	•	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
			•
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3778:		
	CAAATCCTGC ACCATCAGAA AGTGGGGCAG ATGTTCCTGC AGTCATAGTG	CCGTCAGCTT	60
	TAAATACTGT ACGTAATTTG GCTAATGCCT CCATCGTGGT GTCAGGGCGT	ATAAATTCAT	120
35	CTTGGTCAAA GATATTTGTG TGTACTTTTG GTCCTGCGTT TGTATATTCA	ACTGAGTTTA	180
	CTTGTATTGG AATAATTTCA TCTTTGAACC GACCATCACG TTGTGCGTCA	TAGGCACGTT	240
	GATGACTTCT GACAGCATAA GCATCTTGAT CTTCGCGTGA TACGTCAAAT	TGGGATGCTA	300
40	CATTTTLCAG CAGTTAAACC CATAGGATAT GACGCACCTA TATCATCALA	TTGTAAGGTT	360
	GGATTGTTTG TGGGCTTCGT TnGCCACCnn TTGGTACGGC	•	400
45	(2) INFORMATION FOR SEQ ID NO: 3779:		4
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		· · · · · ·

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3779:

(D) TOPOLOGY: linear

55

	CAATCTAAAT CGTTCAAATT TGGCACAACG ACAAATAAGG CTTCAACACG AATATATTCT	120
	CTCGGTTGAA ACCTTACTTA TTCATTTATT TTTTATAAAT TAGTGACATA ACACTGTATT	180
5	AGCATCTGCA CGATCGGTTG AAATATATGT TACATTTTCT TGCTGCTTAA TAAATGCATC	240
	ATAGTAATCA TATTGCGACG AATGATATGT GCCATTCGAT GTATCATTTG GGTTTAGCAA	300
	ACAGCCATAA CCTTCGTCAT ATAAATGTTC ACNGAGCATA AGGGGCGTCA TGTTTTAGAA	360
10	CCACCTTACC TACATAAAAT THGCCTCCAT AGGGATCATA	400
	(2) INFORMATION FOR SEQ ID NO: 3780:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3780:	
•	ATGGnCGGTC TCGACGGGAA TCGCAACCCG CGATCTCCTG CGTGCACACn CAGGCGTGTT	60
25	AACCGCTACA CTACGAGACC ATTAGTAAAA CGGAGGAAGA GGGATTCGAA CCCCCGCGAG	120
	CCGTTAAGCC CCTGTCGGTT TTCAAGACCG ATCCCTTCAG CCGGACTTGG GTATTCCTCC	180
	AAAATTATAT GGACCTIGCA GGACTCGAAC CTGCGACCGA ACGGTTATGA GCCGTTAGCT	240
30	CTAACCAACT GAGCTAAAGG TCCTAAATAT AATTTTACAA CTAATAAATA GTGGCGGTGG	300
	AGGGGATCGA ACCCCCGACC TCACGGGTAT GAACCGTACG CTCTAGCCAG CTGAGCTACA	360
35	CCGCCTTATA TAGTTTGTAA ATAATATGGT GGAGACTAGC	400
	(2) INFORMATION FOR SEQ ID NO: 3781:	4-
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3781:	
	AACCACATCT TTATCAAGTT TCATATTCGG AATACCATAC ATTAATAAAC CGCCTGATTC	60
50	TCTAGCACGT TCATAAATAG TTACTTGATA TCCTAGTAGA TTAAGTTCTT CAGCAGCAGC	120
	TAATCCTGCT GGACCGCTTC CAACGATTGC CACTTTTTCA TCTCTACGGC GACTCGGAAC	180
	TTTCGGCGCT ACCCAACCAT TTTCAAAAGC TTCATCAATA ATTGTGCGTT CAATACCTTT	240

	TACACGCCCI GIAAAGICAG GAAAGITAIT IGIIICGCII AAGCGICAIA AGCAGIIIIA	300
	AAATCTTGAT GATACACCAA GTCGTCCAnT CAGGATGGAG	400
5	(2) INFORMATION FOR SEQ ID NO: 3782:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	and the control of th	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3782:	
4	ACATGATGCG TGTGGTATTG GTTTTTATGC GAATATGGAT AATAAAAGGT CTCACGACAT	60
	CATTGATAAA TCGCTTGAAA TGTTGCGACG CTTAGATCAC AGGGGCGGGG TCGGCGCAGA	120
20	TGGCATCACT GGTGATGGCG CAGGTATTAT GACTGAAATA CCTTTTGCAT TTTTCAAACA	180
•	ACATGTAACG GACTTTGATA TCCCAGGTGA AGGTGAATAT GCCGTGGGGT TATTTTTTC	240
	CAAAGAACGC ATTTTAGGTT CTGAACATGA AGTAGTTTTT AAAAAATATT TTGGAAGGCG	300
25	ANGGGTTATC AATTCTTGGT TAACGTAATG TACCAGTTAA TAAAAGATGC CATTGCCTAA	360
* .	ACCATGTAGC AGATACGATG GCCAGTCATT CCACCAAGTG	400
•	(2) INFORMATION FOR SEQ ID NO: 3783:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) Topologi: Titlear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3783:	
40	AATCGGGTGA TGTTGGACGA TGATACGCAG GGAACGTTGC GTTATTCGTA TATGAAATAT	60
	TGGATAACTG TITTAACAAT GATGGTAGAG ATATTTCATC ATTTGTAACA TCGTCAATTT	120
	TGATATTGTG ATGATTTAAC ATAACGACAT CATCGATATT GAATTGGTAT GAAAAACCTG	180
45	CTGTTGCTGA ATCTGTTAAT TTGGCTCCAA TATTTAAAAT TAAATCGCTG TTGTCCACAT	240
	AATCTCGTAT TTTATCTTCG GCAATTTTCC CATCGTAAAT ACCCATATAA TATGGATTTT	300
-	CCTCATTAAA AGCACCTTTT CCTAATGAAA GTTGTGCTAC TGGGTATCTG TGTTTGAnTT	360
50	ACAAAATCTT ChAAGTCCTG GATGGAGGTG AAAACTGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 3784:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3784:	-
10	GGTACTAAGA TGTTTCAGTT CTCCGGGTGT GCCTTCTGAT ATGCTATGTA TTCACATATC	60
	GATAACATGA CATAACTCAT GCTGGGTTTC CCCATTCGGA AATCTCTGGA TCAAAGCTTA	120
	CTTACAGCTC CCCAAAGCAT ATCGTCGTTA GTAACGTCCT TCATCGGCTT CTAGTGCCAA	180
15	GGCATCCACC GTGCGCCCTT AATAACTTAA TCTATGTTTC CACCATTTTT ATAAGTCAAA	240
	CGCTCACATA CGGCTTCGTT TTCATTATTT TAAATGCTCA TTTACATAAG TAAACTCTGC	300
	TTTAAAATAA TTTAACTCAT TGTCTGCnAA ACGTTTTCTT TTATAAAAAG ANTTTAAACG	360
20	CGTTAATGAA GCTGTGAGTG TTCCTTCGAA CACGAGnnGA	400
	(2) INFORMATION FOR SEQ ID NO: 3785:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3785:	
	TACTGGAATG ACATCAGATA CATGTGCACC ACCAATCCAT TTCTTTTCAC CATTGATAAC	60
35	CCAAGTATCG CCTTGnCGTT CAGCGACTGT TTCAAGACCT CCCGCAACGT CCGAACCGTG	120
	TTCTGGTTCA GTTAAAGCAA AGCATGTACG CAGTTCATGT GACTGTAATT TAGGTACATA	180
	TTTCGCAATT TGTTCTTTGC TACCTCCGAA ATAGAAAGTG TTATGCCCTA AACCTTGGTG	240
40	AACACCGAGT AGGGTAGCTA AGGAAATATC AAATCGCGCG AGTAGGTAAG ACATGAAAAA	300
	CTGAAATAGT TGACTAGGCA TTTTGGCGTT TGGACGATCC TTGTAAAGTA ATGGATTGTT	360
45	AAAATAATTT AATTCTCCCA GTCTTTAAAT AGTCCTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 3786:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCATTTGACG AATTTCATTG TTATTCAAAA TTCTATCTAA TCGTGCTTTT	TCAACATTTA	. 60
	ATATCTTACC TCGTAATGGT AAAATCGCCT GCGTTCTAGA GTCACGACCA	GATTTTGTAG	120
5	ACCCCCGGC AGAGTCCCCT TCGACTAAGA AAATCTCACA TTCTTCAGGA	CTTTTACTAG	180
	AGCAATCGGC TAATTTACCT GGAAGCTTGC TACATCTAAC GCTGATTTAC	GACGTGTTAC	240
	TTCACGCGCT TTTTTCGCAG CAACACGTGC ACGGCCCGCC ATAATACCTT	TTTCAACCAC	300
10	TGTACGTGCG ACTTGTGGGA TTTTCATATA AAAATCGTTC AAAGTGCTCT	GAGAATAATT	360
	TATCTACAAC TTGACGCACT TCAGAATTAC CTAATTTTGT		400
15	(2) INFORMATION FOR SEQ ID NO: 3787:		
,,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid		•
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3787:		•
25	TCTCTTCCCG TTTCGCTCGC CGCTACTAAG GGAATCGAAn TTTCTTTCTC	TTCCTCCGGG	60
	TACTAAGATG TTTCAGTTCT CCGGGTGTGC CTTCTGATAT GCTATGTATT	CACATATCGA	120
•	TAACATGACA TAACTCATGC TGGGTTTCCC CATTCGGAAA TCTCTGGATC	AAAGCTTACT	180
30	TACAGCTCCC CAAAGCATAT CGTCGTTAGT AACGTCCTTC ATCGGCTTCT	AGTGCCAAGG	240
	CATCCACCGT GCGCCCTTAA TAACTTAATC TATGTTTCCA CCATTTTTAT	AAGTCAAACG	300
*	TTAACATGAA GTTACGTTCT TTTATAAAAA GATTTAAACG CGTTATTAAT	CTTGTGAGTG	360
35	TTCTTTCGGA CACTAGCGAT TATTTCTnAT GATnCAAGCT	•	400
	(2) INFORMATION FOR SEQ ID NO: 3788:		
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	-	,
45		* .	
00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3788:		
	ATTCTCTGCT TTCATCTCAT TTGGTGACTA ATACCCTGAT TTTGTCCAAG	TAAATGCTTC	60
50	ATAAAGTATT CTTGACCTTT TGCAGAACTT GAAATTAAGT TTGAACGCCA	TATATAATGA	120
	TTTTGGATGA TTCTTTTCA AATCAGGATC TCTATTGCAA ATTGTGTTTG	TnTTGATTTC	180

	TCTTCTGCAA ACAACAAACT ATTTTTATTA AATTGTGGAT ATGATGGTAA CCAACCAAGT	300
	CTAGCTGCTA ANACATTATA ATCAGCTGGA TGTTGATGCT TTAACTCCTC TGTTTTAGCT	360
5	AATGGAGATT TTAAACGATC TACATTTGAC TCTTCATAAT	400
	(2) INFORMATION FOR SEQ ID NO: 3789:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3789:	
	CGGTTTCTTA ATTATGAACG CAACTATGAA TGGCTTATTA ACTATCACGG GCACATTGGC	60
20	AAAAGATCAG CTTGCACAAA ATGGACAAGG CATGGTGCTC GGTATACAAA CGGTTGAAAC	120
	CGGTGTTTTT GGCGGGATTA TCACAGGTAT TATGACCGCA ATACTTCACA ACAAATATCA	180
	CAAAGTGGTA TTACCACCGT ATTTAGGTTT CTTTGGTGGC TCTAGATTTG TCCCTATTGT	240
25	CACAGCATTT GCCGCAATCT TTTTAGGTGT ATTGATGTTT TTCATTTGGC CAAGCATACA	. 300
	ngccggcatt tatcatgttg gtgggatttg taacgaaaac aggtgccatc ggtactnttg	360
	TTTATGGGTT CATCTTTAGG ATTGTTAGGT CCACTCGGTT	400
30	(2) INFORMATION FOR SEQ ID NO: 3790:	-
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 716 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3790:	
	ATAATGGACT GTGCCGnGTA ATAATATnGn TCTCTAAAAG TTGTATTTTA AAAATAGTTC	60
	TTTAAATTAT ATACCCACCA CATTTGGTGA kGAACCTAAA AAAAAGCACT TCCCAAAAAT	120
45	GGAAAGTGCA AGTAGTGAGC CATAGAGGAT TCGAACCTCT GACCCTCTGA TTAAAAGTCA	180
	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG	240
	AGTGACGGAT CAAANGTCCG TTGCCTTACC GCTTGGCTAT AGCCAATATA TAGATGGTGG	300
50	AGGGGGGCAG ATTCGAACTG CCGAACCCGA AGAGCGGATT TACAGTCCGC CGCGTTTACC	360
	ACTTCGCTAC CCCTCCAGCT TATTCATATA ATTTAATAAT CAAAATGGTG GAGAATGACG	420

	CAAAATAATG ACTCCTACGG GACTCGAACC CGTGTTACCG CCGTGAAAGG GCGTGTTCTT	540
	AACCGLTGAC CAAGGAGCCA TGGCTCACCA GGTAGGACTC GAACCTACGA CCGATCGGTT	-600
5	TAACAGCCGA TAGCTCTACC ACTGAGCTAC TGTGGGATTA ATATTATGCC TGGCAACGTT	660
	CTACTCTAGC GGAACTAAAG TTNGAACTNA CCATCGACGC TAAAGGAGCT TAACTT	716
	(2) INFORMATION FOR SEQ ID NO: 3791:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	A dy w
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
- 0		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3791:	*
	TGTCATGACG TTATTTGAAG ATATCGCGCA AGTCTTTTTA AAGGTAACAC TATCATTTAT	60
20	GCAATACGGC GCATTACCAG AGTTGCATGG TCAAAATATA TTGTTGTCAT TTGAAGATGG	. 120
-		
	ACGTGTACAA AAATGCGTGT TACGTGATCA TGATACTGTC AGAATTTATA AACCATGGCT	180
25	AACAGCACAT CAGCTTTCAT TGCCGAAGTA TGTCGTCAGA GAAGATACAC CTAATACGCT	240
	AATTAATGAG GATTTGGAAA CATTCTTTGC nTGATTTTCA AACATTAGCT GTGATCGGTA	300
	AATCTATATG CCATTATTGA TGCAATTCCA AGATTTATTT GGTGTGAAGT GNAGCATGAA	360
<i>30</i>	CTTATGTCGT TGTTAAAACA AATTTTGAAA AAAGGAAGTG	400
	(2) INFORMATION FOR SEQ ID NO: 3792:	• • •
•	(i) SEQUENCE CHARACTERISTICS:	
<i>35</i>	(A) LENGTH: 425 base pairs (B) TYPE: nucleic acid	
a .	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3792:	,
	TTTTCACACA ATACATGGAC ACCATGGTTC AATGCTTCTA TAGAAAGATC AGCATGGAAT	60
45	TTATTAGGTG TACAAATGAC CACCGCATCA ACAAGTTTAA ACAGCTCGCT AGGTGTCTCA	120
	ACTGCATGAG GTATATTAAA GCGCTTCGCA ACATCAATCA TCTGCACTGT ATTAATATCT	- 180
	TGTACTGCAA CTAATGAGAC TGTGTCTTTG AGTTTCAGCA ATGCTGGAAT ATGACGGTCT	240
50	TGTGCAATAC CACCAACACC TATCACACCA ACTTTTAATT TTGTCATGAT GTGCCTCCTT	300
	ACCUTATION GTEATICANA GTANATTGCT TTGCCTGATT TKGCAGACTG ATAAATYGCT	360

	2000	723
	(2) INFORMATION FOR SEQ ID NO: 3793:	*
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	· .
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3793:	
15	GATGCTCTAC CAACTGAGCT AATGGCTCTA ATGGCTGGGC TAGCTGGATT CGAACCAACG	60
	AGTGACGGAG NAAAGGTCCG TTGCCTTACC GCTTGGCTAT AGCCCAATAT ATAGATGGTG	120
20	GAGGGGGCA GATTCGAACT GCCGAACCCG AAGGAGCGGA TTTACAGTCC GCCGCGTTTA	180
20	GCCACTTCGC TACCCCTCCA GCTTATTCAT ATAATTTAAT AATCAAAATG GTGGAGAATG	240
	ACGGGTTCGA ACCGCCGACC CTCTGCTTGT AAGGCAGATG CTCTCCCAGC TGAGCTAATT	300
25	CTCCAAAATA ATGACTCCTA CGGGACTCGA ACCCGTGTTA CCGCCGTGAA AGGGCGGTGT	360
	CTTAACCGCT TTGACCAAGG AGCCATGGCT CCACAGGTAG	400
	(2) INFORMATION FOR SEQ ID NO: 3794:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3794:	
40	ATCAGCAGGG TTGAAAGTAC CTGCTGCAAC AGTAATACCA TTATTAGTTC CAGCAATACC	60
	TGCTACAGTT GCTGCAGATG CTTCTTTCAC CCATGGACTC GTATTATTGC GACGTGTAAA	120
	TGTnTCACAA CGTTACCATT ACGTTTAATA ACTAATTTAT CAGCGTATGT CGTTACGTTA	180
45	CCGGCATGTG TATTCACTGT TTGGTTTGCT CCAGGTGCAA TTGTAATCGC TCCTGCCGCT	240
	GTTTCAGTCA CAGTTGGTTT CGCTGGTTGC ACATCTTTTA CTACAAATTT CGCTGGTAAA	300
	GATGTTGCAA AAGTATGTCC GTTATAGATG ACGTCCATAT TTTGCGTTAA CGACTTTAGC	360
50	CACATTCGGT TTATTCATAG CGGACCAGTT TGCGTCCATT	400
	(2) INFORMATION FOR SEQ ID NO: 3795:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

,		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3795:	
	GCGCCGAAAA TGTACCGGGG CTAAACATAT TACCGAAGCT GTGGATTGTC CTTTGGACAA	60
10	TGGTAGGAGA GCGTTCTAAG GGCGTTGAAG CATGATCGTA AGGACATGTG GAGCGCTTAG	120
	AAGTGAGAAT GCCGGTGTGA GTAGCGAAAG ACGGGTGAGA ATCCCGTCCA CCGATTGACT	180
	AAGGTTTCCA GAGGAAGGCT CGTCCGCTCT GGGTTAGTCG GGTCCTAAGC TGAGGCCGAC	240
15	AGGCGTAGGC GATGGATAAC AGGTTGATAT TCCTGTACCA CCTATAATCG TTTAATCGAT	300
	GGGGGGACGC AGTAGGATAG GCGAACGTGC CATTTGATTG CACGTCTAAA GCAGTAAAGC	360
20	TGAGTATTAG GCNAATCCGG TACTCGTTNA AGGCTGAACT	400
	(2) INFORMATION FOR SEQ ID NO: 3796:	
*	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3796:	
	GCACATGTTG CCATGCTTGA GCTAAATTAC CTTGCATCAT TGCTAGCTTT TCTTGTATTA	60
	ACTGATATTT ACTAATTGGT TTGCCGAATT GCTTACGCTC AGTGACATAA TCTAATGTGG	120
35	CACGTAAAGC GCCACCATAC CACCTGTAGC CATATAAGCA ACGSCTGCTC TCGTTGAATA	180
	AAGAATTTTG GCAATATCTT TAAAGCTTGT TATGTTTTGT AAGCGATCCG CTTCATCTAC	240
40	TTTGACATTA GTTAATTTAA TTAGGGCGTT AGGAACAATG CGAAGTGCGA TTTTATTATC	300
	AATGACTICA ATATCGACGC CATCTTGTIC TGGTCTGACT ACAAAGCAAT GGGGTTTGCC	360
	AGTTTCnGTT ATTTACTGCG AATACTGGGG GGGNGNGGTT	400
45	(2) INFORMATION FOR SEQ ID NO: 3797:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3797:

	GGAACACCAG TGGCGAAGGC GACTTTCTGG TCTGTAACTG ACGCTGATGT GCGAAACGTG	120
	GGGATCAAAC AGGATTAGAT ACCCTGGTAG TCCACGCCGT AAACGATGAG TGCTAAGTGT	180
, 5	TAGGGGGTTT CCGCCCCTTA GTGCTGCAGC TAACGCATTA AGCACTCCGC CTGGGGAGTA	240
	CGACCGCAAG TTGAAACTCA AAGGAATTGA CGGGGACCCG CACAACGGTG GGAGCATGTG	300
	GTTTAATTCG AAGCAACGNA GAGAACCTTA CCAATCTTTG ACATCCTTTT GACACTCTAG	360
10	GAGATAGAGC CTTCCCTTCG GGGGGACNAA GTGACAGTTG	400
	(2) INFORMATION FOR SEQ ID NO: 3798:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3798:	
	CACAAAACAA GCCAAGCAAA ACAAACGCAT ATAACGTAAC AACACATGGA AACGGCCAAG	60
25	TATCATATGG CGCTCGCCCA ACACAAACA AGCCAAGCAA AACAAATGCA TACAACGTAA	120
	CAACACATGC AAACGGTCAA GTGTCATACG GAGCTCGCCC GACATACAAG AAGCCAAGTA	180
30	AAACAAATGC ATACAATGTA ACAACACATG CAGATGGTAC TGCGACATAT GGGCCTAGAG	240
	TAACAAAATA AGTTTGTAAC TCTATCCAAA GACATACAGT CAATACAAAA CATTACGTAT	300
	CTTTACAACA GTAATCATGG CATTCTATGG ATGCTTCTAA CTGGAATTAA AGCATCGGAA	360
35	CAATCGGGAN GCATATTTCT AAAATTATTT ATTCCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 3799:	e grije.
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	• 8.
	(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3799:	• •
	CTTCGCCGAT ATGGGGGAAG CTAGGTGATA AGATCAGCCG AAAATGGATG GTGTTAAGAG	60
50	CGTTACTTGG TTTGGCGGTA TGCTTATTTT TAATGGCATT GTGTACGACA CCATTACAGT	120
	TTGTACTTGT GAGGTTATTG CAGGGACTAT TTGGTGGTGT TGTTGATGCA TCAAGTGCGT	180
	TTGCCAGTGC AGAGGGGCA CTGAAGGATC GTGGAAAGGT ATTAGGAAGA CTGCAAAGTT	240

	TTTTAGTGCG TTACTGATGA GTATTGCCGT TATTACTTTT ATTGTCTGTn TTTTCGGTGC	360
	CATTAAAATG ATTGAAACGA CACATATGGC CAAAnnCACA	400
5 .	(2) INFORMATION FOR SEQ ID NO: 3800:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
10	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		**
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3800:	
.*	GGAATCTATT ATATTAGATG TAAAAAATTT CGCGCAAAAT GTGTTAGGTA AAGGTGTCAT	60
	TGTCGTCAAT GATGTGCCTG GCTTTGTCGC AAATAGAGTC GGCACGCAAA CAATGAATGA	120
20	TATTATGTAT CGCGCCGAGC AACACAAGAT AAGCATTGTA GATGTGGATG CTTTAACTGG	180
	GCAAGCGATT GGTCGTCCTA AAACAGGTAC ATATGCGCTA TCTGACCTAG TCGGTTTAGA	240
	TATTGCAGTG TCTGTAAATT AAAGGCATGC AACAAGTACC TGAAGAAACA CCTTATTTTC	300
25	ATGATGTCAA AATGTAAATA CGTTGTTTGA CCATGGGCGC ACTCGGACGT TAAnnCGnAA	360
	ACCAAGGGTT TTTACCAAAA AGGGTTAAAG GGDAACTTAA	400
	(2) INFORMATION FOR SEQ ID NO: 3801:	,
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3801:	
40	TGCAGGCGTT TCTGGTCTGC ATAGTTTACG CATACGACCT GCGCGATCCT TATCTGGTAA	60
	TAAATTGTAA AACGATAGTT CCCGTTGTTC CTAATAGTTG TATTCTATCT GACGCATAAT	120
	GTGAAAAATA ACCTGCCATC TCTAAGCCCG GTCTTGATAT ATCAGCATTT TTAATTGGCT	180
45	TCGATAGTCC TTCTTCACCA GCGATTAAAT CTAACTTTAA TGTTTCAACT AGTTTTTCTG	240
	TCGTTAACAT GGGTTCACCT CAATTGTATT TACCCTACTC TTACATCTCT TCTTATCATA	300
50	TCAAAAATAT AACACCAATC TACATTGAAA AGCTAAANTA AATATTAATG TTCATTATTG	360
	TTATMATTTT ACAAGTCAAT ATCATCATAA TTTATTGCTG	400
	(2) INFORMATION FOR SEQ ID NO: 3802:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3802:	
10	TTTCACTTTT GAACCATGCG GTTCAAAATG ATTATCCGGT ATTAGCTCCG GTTTCCCGAA	60
	GTTATCCCAG TCTTATAGGT AGGTTATCCA CGTGTTACTC ACCCGTCCGC CGCTAACATC	120
	AGAGAAGCAA GCTTCTCGTC CGTTCGCTCG ACTTGCATGT ATTAGGCACG CCGCCAGCGT	180
15	TCATCCTGAG CCAGGATCAA ACTCTCCATA AAAATTATGA TGTTTGATTA GCTCATAAAT	240
	ACTAAATAAT GTTTGTAACT TATAGTTACG TTTTTTGGAA TTAACGTTGA CATATTGTCA	300
	TTCAGTTTTC AATGTTCATT TTTCTTACCG ACAAGAATTA ATTATACATT TTATTAACAT	360
20	TTAAGTCAAT AACTTTnTTT ATCCTGTCCA TTTnATTTTT	400
	(2) INFORMATION FOR SEQ ID NO: 3803:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	C.S.
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803:	·
	TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA	60
35	TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC	120
	CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	180
	AACCGAAGTT GGGAAATCTC ATCTTGAGGG GGGCTTCATG CTTAGATGCT TTCAGCACTT	240
TCATCCTGAG CCAGGATCAA ACTCTCCATA AAAATTATGA TGTTTGATTA GCTCATAAAT ACTAAATAAT GTTTGTAACT TATAGTTACG TTTTTTGGAA TTAACGTTGA CATATTGTCA TTCAGTTTTC AATGTTCATT TTTCTTACCG ACAAGAATTA ATTATACATT TTATTAACAT TTAAGTCAAT AACTTTNTTT ATCCTGTCCA TTTNATTTTT (2) INFORMATION FOR SEQ ID NO: 3803: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3803: TAGTCACCAG ACATATGAAT GTAATTTATA CATTCAAAAC TAGATAGTAA GTAAAAGTGA TTTTGCTTCG CAAAACATTT ATTTTGATTA AGTCTTCGAT CGATTAGTAT TCGTCAGCTC CACATGTCAC CATGCTTCCA CCTCGAACCT ATTAACCTCA TCATCTTTGA GGGATCTTAT	300	
	TATGTCCATC CCGGTCCTCT CGTACTAAGG ACAGCTCCTn TCAAATTTCC TACGnCCAnG	360
45	ACGGATAGGG ACCGAACTGT TTTCACGACG GTnCTGAACC	400
	(2) INFORMATION FOR SEQ ID NO: 3804:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGTNCACTCA CNCCAGATGT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCACT	60
	ATAAAAATGG AGCAGAAGAC GGGATTCGAA CCCGCGACCC CAACCTTGGC AAGGTTGTAL	120
5	TCTACCGCTG AACTACTTCT GCATATGCGG GTGAAGGGAG TCGAACCCCC ACGCCGTAAG	180
*	TTAGWATCCT AAGTCTAGTG CGTCTGCCAA TTCCGCCACA CCCGCAAATG GTGAGCCATA	240
than the strain and other	GAGGATICGA ACCICTGACC CICTGATIAA AAGICAGAIG CICTACCAAC IGAGCIAAIG	300
10	GCTCTTCCAT GGTGCCGGCC AGAGGACTTG AACCCCCAAC CTACTGATTA CAAGTCAGTT	360
•	GCTCTLACCA ATTGAGCTAG GCCGGCAATA TGTAAGAATA AATGGTGGAG AATGACGGGT	420
15	TTCGAAACCG CCGnACCCTC TGGCTTGTTA AGGGCAG	457
	(2) INFORMATION FOR SEQ ID NO: 3805:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	*
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3805:	
	ACTITITATI TIGACGITIT AGACATAAAA AAAGCICACG GICTCAACII GCCIGGCAAC	60
	GTTCTACTCT AGCGGAACGT AGTTGGCTAC CATCGTCGCT AAAGACCTTT CTTGACTTGT	120
30	GACAATCGCT TGCTTCTTTC CTCTCCTTCG GCTCTCGCTT ACTCATTTAG CTCTACTAAA	180
	CTCGTTGCGC TCTTTTCTCG TTTCGTCAGA TTCAAACGTT TTCACTTCGC CAAGCCATTT	240
35	TTCTTTGTGT TTACTTTTTA TnTTGACGTT TTAGGCATAA AAAAAAGAGA CCTTGCGGTC	300
	TCAATGCGGC TCATCGCATC CATHTTTGC CGGGCAACGT TCTACTCTTA GCGGAACGTA	360
	AGTTGGCTAC CATCGTCGCT AAAGACCTTT TTGGACTGTG	400
40	(2) INFORMATION FOR SEQ ID NO: 3806:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	*
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
•		•
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3806:	
	GTTATGAAAG TCGCGCTTAA AATGCGTTAA TGTGACAAGG ATAATTCAAC ATCGTTTCAT	60
	TOTAL CATTACACT CATTACACT ATCATACACA TRATATTTAG CATGAGTTAT ATTACTAAAA	120

	TCATTGGCTT AATATTTACA GCGCTTGGTA TTGCAGGTGC CGTATTACCT TTACTGCCAA	240
	CGACCCCTTT TTTACTCGTA GCAGTTTTTT GCTTTGCTCG AAGTTCAGAT CGCTTTTACA	300
5	ATTGGGCnnA TTAATCAAAA AATTTATAAA GAATATGTAG AAAACCTTTn TTTGACATCG	360
	AGGCTACACG CTACAACAGA AAATTGAAAA TTTAATTAGC	400
10	(2) INFORMATION FOR SEQ ID NO: 3807:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	9
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3807:	
20	AGGAGAACAT GCTGTTACAT TTGGAGAGCC TGCTATTGCA GTGACCGTTT AACGCAGGTA	60
	AAATCAAAGT TTTAATAGAA GCCTTAGAGA GCGGGAACTA TTCGTCTATT AAAAGCGATG	120
	TTTACGATGG TATGTTATAT GATGCGCCTG ACCATCTTAA GTCTTTGGTG AACCGTTTTG	180
25	TAGAATTAAA TAATATTACA GAGCCGCTAG CAGTGAACGA TCCAAACGAA TTTACCACCA	240
	TCACGTGGAT TAGGATCGAG TGCCAGCTGT CGCGGTTGCT TTTGTTCGTG CAAGTTATGG	300
30	ATTTTTTAGG GNAAATCATT AACGAAAGNA AGAACTCATT GGAAAAGGCT NATTGGGCCA	360
	GAAGCAAATT GCCACATGGT AAAACCAA	388
	(2) INFORMATION FOR SEQ ID NO: 3808:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 447 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	; 424
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3808:	
	ATGCGCAGAG TATATGGAGG AACACCAGTG TCGAAGCGCA CTTTCTGGTC TGTAACTGAC	60
15	GCTGATGTGC GAAACGTGKG GGATCAAACA GGATTAGATA CCCTGGTAGT CCACGCCGTA	120
	AACGATGAGT GCTAAGTGTT AGGGGGTTTC CGCCCCTTAG TGCTGCAGCT AACGCATTAA	180
50	GCACTCCGCC TGGGGAGTAC GACCGCAAGT TGAAAACTCA AAGGrATTGA CGGGGACCCG	240
-	CACAAGCGTG GGAGCATGTG GETTAATTCG AAGCAACGNN GAGGAACCTT ACCAAATCTT	300
	GACATCCTTT GACAACTCTA GAGATAGAGC CTTCCCCTTC nGGGAACAAA TGACAGGTGG	360

	ACCCTTAAGC TTATTTGCCA TCATTAA		•	447
	(2) INFORMATION FOR SEQ ID NO: 3809:		+	*
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	ar and a second	• .	
10	(D) TOPOLOGY: linear	m. Najagom ngo - agaronalediga - arabaha (nasa water	agas sagrie - gas a reformação definição, con recisio - en especiano.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3809:		
15	CCAACTGAGC TACTGAACCA TAATAAAAAT GTAATGACTG	GCGGTCTCGA	CGGGAATCGA	60
	ACCCGCGATC TCCTGCGTGA CAGGCAGGCG TGTTAACCGC	TACACTACGA	GACCTATAAA	120
	ATATTGCGGG AGGCGGATTT GAACCACCGA CCTTCGGGTT	ATGAGCCCGA	CGAGCTACCG	180
20	AACTGCTCCA TCCCGCGATA ATAAAAATA ATGGCGGAGG	AAGAGGGATT	CGAACCCCCG	240
	CGGCCCGTTA AGGCCCTGTC GGTTTTCAAG ACCGATCCCT	TCAGCCGGAC	TTGGGTATTC	300
	CTCCATTATT ATAGGTAAAT CGCTATTAAT TATAAAATTA	AATGGCGGTC	TCGACGGGAA	360
25	TCGAACCCGC GATCTCCTGC GTGACAGGCA GGCGTGTTAA	•		400
	(2) INFORMATION FOR SEQ ID NO: 3810:			
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	*		
35				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	3810:		
	TGCTTGGTAA AATCTATATT TTACTTACTT ATCTAGTTTT	CAATGTACAA	ATAATGGTGG	60
40	GCCTAAGTGG ACTCGAACCA CCGACCTCAC GCTTATCAGG	CGTGCGCTCT	AACCAGCTGA	120
	GCTATAGGCC CATTTTTTG AATGTTAAAT AAACATTCAA	AACTGAATAC	AATATGTCAC	180
	GTTATTCCGC ATCTTCTGAA GAAGATGTTC CGAATATATC	CTTAGAAAGG	AGGTGATCCA	240
45	GCCGCACCTT CCGATACGGC TACCTTGTTA CGACTTCACC	CCAATCATTT	GTCCCACCTT	300
	CGACGGCTAG CTCCTAAAAG GTTACTCCAC CGGCTTCGGG	TGTTACAAAC	TCTCGTGGTG	360
50	TGACGGGCGG TGTGTACAAG ACCCGGGAAC GNATTCACCG			400
	(2) INFORMATION FOR SEQ ID NO: 3811:			
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 380 base pairs		* •	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3811:	
	GCTTCATGCT TAGATGCTTT CAGCACTTAT CCCGTCCACA CATAGCTACC CAGCTATGCC	60
10	GTTGGCACGA CAACTGGTAC ACCAGAGGTA TGTCCATCCC GGTCCTCTCG TACTAAGGAC	120
	AGCTCCTCTC AAATTTCCTA CGCCCACGAC GGATAGGGAC CGAACTGTCT CACGACGTTC	180
	TGÁACCCAGC TCGCGTACCG CTTTAATGGG CGAACAGCCC AACCCTTGGG ACCGACTACA	240
15	GCCCCAGGAT GCGATGAGCC GACATCGAGG TGCCAAACCT CCCCGTCGAT GTGGAACTCT	300
	TGGGGGAGAT AAGCCTGTTA TnCCCGGGGT AGCTTTTATC CGTTGAGCGA TGGnnCTTCC	360
	ATGCGGGAAC CACCGGGATT	380
20	(2) INFORMATION FOR SEQ ID NO: 3812:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	S 4
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3812:	
	GAGGGATCTT ATAACCGAAG TTGGGAAATC TCATCTTGAG GGGGGCTTCA TGCTTAGATG	60
	CTTTCAGCAC TTATCCCGTC CACACATAGC TACCCAGCTA TGCCGTTAGC ACGACAACTG	120
35	GTACACCAGA GGTATGTCCA TCCCGGTCCT CTCGTACTAA GGACAGCTCC TCTCAAATTT	180
	CCTACGCCCA CGACGGATAG GGACCGAACT GTCTCACGAC GTTCTGAACC CAGCTCGCGT	240 Ja.
	ACCGCTTTAA TGGGCGAACA GCAACCCCTT GGGACCGACT ACAGCCCCAG GATGCGATGA	300
40	GCCGACATCG AGGTGCCAAA CCTCCCCGTC GNTGTGAACT CTTGGGGGAG ATAAGCTGTT	360
	ATCCCCGGGT GAGNTTTnTC CGTTGA	386
45	(2) INFORMATION FOR SEQ ID NO: 3813:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3813:

	CTTGGTACTT CTGGTGTTGG TGGCGTTGGT GTTTCCGGCT CACTTGGTAC TTCTGGTGTC	120
	GGTGGCGTTG GTGGCACGAT TGGAGGTGTT GTATCTTCTT CAATCGTTTG TTGACCTTCA	180
5	TTTTGGCCGC TTACTTTTGG AAGTGTATCT TCTTCAAAGT CAACACTATT GTGTCCACCG	240
	AATTGATAAC TTGGTTTATC TTTATTTGTA TCTTCTTCAA TAATTTCAGT GTGCTTATTG	300
	AATCCGTGAA TATGTGGCAC nTGGTCGAAG TCGATATCAA TGATGTTACC GCCATGTTCA	360
10	TACTTAGGTT TGTCTTTTC TGTANCTTCC TCGAATGACT	400
	(2) INFORMATION FOR SEQ ID NO: 3814:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3814:	
	TAATTGGGCT ACCATCGTCG CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT	60
25	TCCTCTCCTT CGGCTCTCGC TTACTCATTT AGCTCAACTA AACTCGTTGC GCACTTTTCT	120
	CGTTTCGTCA GATTCAAACG TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT	180
	TATTITGACG TITTAGGCAT AAAAAAAAGA GACCTTGCGG TCTCAATGCG GCTCATCGCA	240
30	TCCATTTTT GCCTGGCAAC GTTCTACTCT AGCGGAACGT AAGTTGGGCT ACCATCGTCG	300
	CTAAAGACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCTT CGGCTCTCGC	360
05	TTACTCATTT AGCTCTACTA AACTCGGTGC GCTCTTTTCT	400
35	(2) INFORMATION FOR SEQ ID NO: 3815:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
**		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3815:	
	TTCTTTCATA TGATTTTTTA GATTTTAGTA AGTCAATAAA GCCAATTTTC TCCAACGATT	60
	GAATGTAACG TTGATTGATA AATGTATTTC TTGGTAAATC ACCACCCGCT AAAATTGTGG	120
50	CGATATTTAA GGCAATATGA TAATCATGGT CGCTAATAAA ATGACCCCGT CTTTGCGCAT	180
	CONTROL TO CATCART COTTGARGT CTTCACCTAA AGCGATATAT TGATGTCTAG	240

	GTTGTGCTGT ATTGAAAATA ATCGTATCTG GTATCACGTA AAThACCATA ACGACGTGCC	360
5	TCCAAAGGCA TTTGGTANGA GCCTTCGGCA ATGCCGATAA	400
3	(2) INFORMATION FOR SEQ ID NO: 3816:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3816:	
	CCAATATTTA TATTAATGAA AATAAGATGT TATATTCATT GTTAATTTAA CACATAGTAA	60
	GANAAACAGT CATAAATTGA TTTCTAATTG AAATCATCTT ATGACTGCTT TTTATTATAC	120
20	TITACATTTC TCGTTTCGTC AGATTCAAAC GTTTTCACTT CGCCAAGCCA TCTTTCTTTG	180
	TGTTTGCTTT TATTTTGACG TTTTAGACAT AAAAAAAGAG ACCTTGCGGT CTCAATGCGG	240
25	CTCATCGCAT CCACTTTTG CCTGGCAACG TTCTACTCTA GCGGAAnTAA GTCGGACTAC	300
	CATCGACGCT AAGGAGCTTA ACTTCTGTGT TCGGCATGGG GAACAGGTGT GACCTCCTTG	360
	GCTATAGTCA CCAGACATAT GAATGTAAAT TCATACATTC	400
30	(2) INFORMATION FOR SEQ ID NO: 3817:	•
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3817:	
40	TGTTATTGTT CAAAATCATG ATCAAGATCA GTATATCGGG GGGNATTATG AAGCGATGCA	60
	TACATTATCA CATAATAAGA TTAAATCACA ATTACGTATG ACCTTACCGG AGTACATGAT	120
45	ACCAGTTAAT TTCATGCATA TTGAGCAAAT TCCTATTACT ATTAATGGGA AATTAGATAA	180
43	GAAGGCATTG CCTATCATGG ACTATGTCGA TACGGATGCC TATGTAGCAC CGAGTACAGA	240
	TACCGAACAC TTGCTATGCC AAATTTTTGC AGATATTTTA CATGTGAATC AAGTAGGTAT	300
50	TCATGATAAT TTCTTTGAAT TAGGTGGCCA TTCATTAAAA GCAACGTTAT GGnTGGAATC	360
	GGATAGAGGC ATCTACTGGG GAAACGATTA CCAATTGGGG	400
•	(2) INFORMATION FOR SEC ID NO: 3818:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3818:	
10	TCGGAATCTG GGAGGACCAT CTCCTAAGGC TAAATACTCT CTAGTGACCG ATAGTGAACC	60
	AGTACCGTGA GGAGAAGGTG AAAAGCACCC CGGAAGGAAG TTGAAATAGA ACCTGAAACC	120
	GTGTGCTTAC AAGTAGTCAG AGCCCGTTAA TGGGTGATGG CGTGCCTTTT GTAGAATGAA	180
15	CCGGCGAGTT ACGATTTGAT GCAAGGTTAA GCAGTAAATG TGGAGCCGTA GCANAACATG	240
	TTCTGAATAG GGCGTTTAGT ATTTGGTCGT AGCCGNAAAC CAGGTGATCT ACCCTTGGTC	300
	CAGGTTGAAG TTCAGGTAAC ACTGGAATGG AGGACCGAAC CGACTTACGT TTGAAAAGTG	360
20 .	AGCGGATGAA CTGAAGGTAG CGGAGAAATT CCCAATCGAA	400
	(2) INFORMATION FOR SEQ ID NO: 3819:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
<i>30</i> ,		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3819:	٠,
	CAACGAGAGA CTCGGTGAAA TCATAGTACC TGTGAAGATG CAGGTTACCC GCGACAGGAC	60
35	GGAAAGACCC CGTGGAGCTT TACTGTAGCC TGATATTGAA ATTCGGCACA GCTTGTACAG	120
	GATAGGTAGG AGCCTTTGAA ACGTGAGCGC TANTTACGTG GAGGCGCTGG TGGGATACTA	180
	CCCTAGCTGT GTTGGCTTTC TAACCCGCAC CACTTATCGT GGTGGGAGAC AGTTTCAGGC	240
40	GGGCAGTTTG ACTGGGGCGG TCGCCTCCTA AAAGGTAACG GAGGCGCTCA AAGGTTCCCT	300
	CAGAATGGTT GGAAATCATT CATAGAGTGT AAAGGCATAA GGGACTTGAC TGCGAGACCT	360
45	ACAAGTCGAG CAGGTCCAAA AACGGACNTA GTGATNCGGT	400
	(2) INFORMATION FOR SEQ ID NO: 3820:	·
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	*